

Medical Library

610.5  
A568  
Index  
v.1-20

January-February 1965 • Part 2

# Anesthesiology

THE UNIVERSITY  
OF MICHIGAN

FEB 17 1965



The Journal of

The American Society of  
Anesthesiologists, Inc.

Twenty-Year Cumulative Index

Volumes 1-20

1940-1959



UNIVERSITY OF MICHIGAN  
MEDICAL LIBRARY



# Anesthesiology

---

The Journal of  
The American Society of  
Anesthesiologists, Inc.

Editor-in-Chief

LEROY D. VANDAM, Boston

Editors

JOHN ADRIANI • STUART C. CULLEN  
NICHOLAS M. GREENE • S. G. HERSHEY  
ARTHUR S. KEATS • JOHN W. PENDER

TWENTY-YEAR CUMULATIVE INDEX  
VOLUMES 1-20 • 1940-1959

Edited by

HOWARD L. ZAUDER, New York City

*Published by*

J. B. LIPPINCOTT COMPANY  
Philadelphia                      Montreal



Unpublished

The  
Au  
aut  
Su  
app  
ent  
ma  
(a)

Inc

AB.

AB.

AB.

AB.

Abc

r

s

ABR

ABR

ABR



# INDEX OF AUTHORS AND SUBJECTS • VOLUMES 1-20, 1940-1959

The volume numbers appear in **bold face**, followed by the page number in each volume.

Author entries for original articles and Current Comments include the title of the article and the co-author under the first author; reference is made from the joint authors.

Subject entries for all material in the JOURNAL volumes (except Literature Briefs and Book Reviews) appear in this index. The name of the authors of original articles, in parentheses, follows the subject entry. Entries from the JOURNAL departments are followed by the department in which the subject matter appears, *i.e.*, Editorial (edit.), Current Comment (c.c.), Correspondence (corr.), and Abstract (abs.).

## Index of Volumes:

VOLUME	YEAR	VOLUME	YEAR	VOLUME	YEAR
<b>1</b>	1940	<b>8</b>	1947	<b>14</b>	1953
<b>2</b>	1941	<b>9</b>	1948	<b>15</b>	1954
<b>3</b>	1942	<b>10</b>	1949	<b>16</b>	1955
<b>4</b>	1943	<b>11</b>	1950	<b>17</b>	1956
<b>5</b>	1944	<b>12</b>	1951	<b>18</b>	1957
<b>6</b>	1945	<b>13</b>	1952	<b>19</b>	1958
<b>7</b>	1946			<b>20</b>	1959

- ABAJIAN, J., Peridural segmental anesthesia with intracaine, **4**: 372
- ABAJIAN, J., Pharmacologic studies in search of a suitable drug for peridural segmental anesthesia, **4**: 528
- ABAJIAN, J., BRAZELL, E. H., DENTE, G. A., and MILLS, E. L., Preliminary clinical appraisal of Fluothane (abs.), **19**: 93
- ABAJIAN, J., BRAZELL, E. H., MILLS, E. L., and PETERSON, O. S., Blood volume studies utilizing the radiochromium 51 method and its application to anesthesiology, **16**: 733
- Abdomen
- relaxation with combined regional and cyclopropane anesthesia (McCuskey), **1**: 26
- surgery
- anesthesia for urgent intra-abdominal surgical procedures in patients with cardiovascular disease (Johnson & Livingstone), **15**: 150
- perineal resection of rectum, Nupercaine spinal anesthesia (Wilkinson), **3**: 437
- prevention of atelectasis or pneumonia following (Greene & Berkowitz), **14**: 166
- regional anesthesia for (Sheldon), **2**: 194
- significance of changes in lung volume during and after (Altschule), **4**: 385
- spinal anesthesia for (Stechishin), **10**: 494
- ABRAMSON, D. I., GROLLMAN, A. I., and SCHWARTZ, A. L., Influence of cyclopropane upon peripheral blood flow in man, **2**: 186
- ABREU, B. E., Unsaturated mono halogenated hydrocarbons as general anesthetic agents, **2**: 393
- ABREU, B. E., PEOPLES, S. A., HANDLEY, C. A., and MARSH, D. F., Anesthetic potency and biochemical effects of 1 and 2 chlor propene-1 and 1 and 2 brom propene-1, **2**: 535
- Absorbents: see under Carbon Dioxide; Baralyme; Soda Lime
- Acapnia, danger of during controlled respiration (Waltros & others), **11**: 661
- Acetaldehyde, a volatile anesthetic and sympathetic stimulant (Koppanyi), **6**: 603
- Acetylcholine
- action of succinylcholine on motility of aneurial smooth muscle and relationship to (Ferguson), **18**: 413
- cardiac response to, effect of Nembutal anesthesia on (Teitelbaum & Gantt), **16**: 261
- ACHESON, P., BULL, A. B., and GLEES, P., Electroencephalogram of the cat after intravenous injection of lidocaine and succinylcholine, **17**: 802
- Acid-base Balance
- during cyclopropane anesthesia (Stormont & others), **3**: 369
- effect of Fluothane on (Dobkin), **20**: 10
- Acidosis
- during anesthesia (Leigh), **3**: 429
- metabolic
- and hyperventilation (c.c.), **20**: 721
- of hyperventilation produced by controlled respiration (Papadopoulos & Keats), **20**: 156
- ACIERNO, L. J., and DI PALMA, J. R., The effects of ether, cyclopropane and chloroform on the isolated auricle of the cat, **12**: 567
- Acoustic gas analyzer for analysis of mixtures of oxygen, nitrous oxide and ether with and without nitrogen (Faulconer & Ridley), **11**: 265
- ACTH, effect on thiopental reactions (Lemere & others), **13**: 86
- ADAMS, B. J., see SHIDEMAN, F. E., *jt. auth.*
- ADAMS, J. F., see LARSON, E., *jt. auth.*

- ADAMS, P. A., see MOORE, D. C., *jt. auth.*
- ADAMS, R. C., Apparatus for administering Pentothal sodium, **6**: 191
- ADAMS, R. C., Clinical research in anesthesiology, **11**: 178
- ADAMS, R. C., Intravenous anesthesia, **8**: 489
- ADAMS, R. C., Regional anesthesia for operations about the neck and upper extremity, **2**: 515
- ADAMS, R. C., and GREY, H. K., Intravenous anesthesia with Pentothal sodium in the case of gunshot wound associated with accompanying severe traumatic shock and loss of blood: report of a case, **4**: 70
- ADAMS, R. C., LUNDY, J. S., and SELDON, J. H., Ten years of Pentothal sodium intravenous anesthesia: an evaluation of its past, present and future, **6**: 239
- ADAMS, R. C., see LUNDY, J. S., *jt. auth.*
- ADAMS, R. C., see SELDON, T. H., *jt. auth.*
- ADAMS, W. E., see EARLE, R. H., *jt. auth.*
- ADAMS, W. E., see THORNTON, T. F., *jt. auth.*
- Addison's disease  
effect on choice of anesthetic (Mousel), **11**: 495  
effect of morphine in (Salter & White), **10**: 553
- ADELMAN, M. H., Anesthesia in surgery of the patent ductus arteriosus, **9**: 42
- ADELMAN, M. H., Sudden death during cyclopropane-ether anesthesia following the administration of epinephrine: case report, **2**: 657
- ADELMAN, M. H., BERMAN, R. A., and TOUROFF, A. S., Automatic controlled respiration. A preliminary report, **10**: 673
- ADELMAN, M. H., FISCH, H., JACOBSON, E., and KATZ, J., Studies of Promethazine with measurements of concentrations in venous blood, fetal cord blood, and cerebrospinal fluid (abs.), **19**: 93
- ADELMAN, M. H., and IRWIN, C. I., Acute aseptic meningitis following paravertebral lumbar sympathetic blocks, **7**: 422
- ADELMAN, M. H., see JACOBSON, E., *jt. auth.*
- Adrenalectomy  
bilateral, anesthesia for (Bellville & others), **19**: 217  
effect on toxicity of hypnotics (Richards), **2**: 37
- Adrenalin: see Epinephrine
- Adrenals  
pituitary-adrenal response to surgical trauma and anesthesia, eosinopenic response (Traina & others), **14**: 449  
role of, in hyperglycemia, during anesthesia (Johnson), **10**: 379  
spinal anesthesia to control overactivity of in hyperthyroidism (Knight), **6**: 225  
stimulating drugs administered during cyclopropane, cardiovascular studies (Cummings & Hays), **17**: 314  
sympatho-adrenal responses to general anesthesia in man and their relation to hemodynamics (Price & others), **20**: 563
- Adrenocortical extract, effect on reactivity to morphine (Salter and White), **10**: 553
- ADRIANI, J., The effect of varying the moisture content of soda lime upon the efficiency of carbon dioxide absorption, **6**: 163
- ADRIANI, J., The fate of anesthetic drugs in the body, **1**: 312
- ADRIANI, J., Soda lime containing indicators, **5**: 45
- ADRIANI, J., Stability of vinyl ether (Vinethene), **2**: 191
- ADRIANI, J., and BATTEN, D. H., Efficiency of mixtures of barium and calcium hydroxides in the absorption of carbon dioxide in rebreathing appliances, **3**: 1
- ADRIANI, J., and BATTEN, D. H., Inorganic gases in anesthesiology, **3**: 560
- ADRIANI, J., and BYRD, M. L., Study of carbon dioxide absorption appliances for anesthesia: the canister, **2**: 450
- ADRIANI, J., and CRIGGS, T. S., An improved endotracheal tube for pediatric use, **15**: 466
- ADRIANI, J., and CRIGGS, T. S., Rebreathing in pediatric anesthesia: recommendations and descriptions of improvements in apparatus, **14**: 337
- ADRIANI, J., and PHILLIPS, M., Use of the endotracheal cuff: some data pro and con, **18**: 1
- ADRIANI, J., and ROVENSTINE, E. A., Effect of anesthetic drugs upon bronchi and bronchioles of excised lung tissue, **4**: 253
- ADRIANI, J., and ROVENSTINE, E. A., Experimental studies on carbon dioxide absorbers for anesthesia, **2**: 1
- ADRIANI, J., see BERSON, W., *jt. auth.*
- ADRIANI, J., see BRAY, K. E., *jt. auth.*
- ADRIANI, J., see BUSH, O. F., *jt. auth.*
- ADRIANI, J., see EVANGELOU, M., *jt. auth.*
- ADRIANI, J., see HERINGMAN, E. C., *jt. auth.*
- ADRIANI, J., see HOMER, W., *jt. auth.*
- ADRIANI, J., see HOWARD, J. P., *jt. auth.*
- ADRIANI, J., see MAY, G., *jt. auth.*
- ADRIANI, J., see MILES, G. C., *jt. auth.*
- ADRIANI, J., see PENTECOST, P. S., *jt. auth.*
- ADRIANI, J., see ROMAN, D. A., *jt. auth.*
- ADRIANI, J., see ROMAN-VEGA, D. A., *jt. auth.*
- ADRIANI, J., see SWARTZ, C. H., *jt. auth.*
- Age  
effect on choice of anesthetics (Baird), **4**: 17  
effect on lethal hypothermia in dogs (De Boer & Ederstrom), **7**: 518  
effect on reactivity to morphine (Salter & White), **10**: 553
- Agents: see under Drugs; Anesthesia
- AGUTO-ESCARRAGA, L., see SAFAR, P., *jt. auth.*
- AINSLIE, E. H., see GORDON, R. A., *jt. auth.*
- Air  
embolism, prevention of (c.c.), **9**: 658  
ionization of, a method for the dispersion of charges of static electricity (Slocum & Finvold), **5**: 33  
intravenous injection (c.c.), **4**: 202
- Airway: see also under Apparatus; Respiration  
increased pressure in, circulatory effects (Beecher & others), **4**: 612

- obstruction, an unusual cause (case report), 12: 666
- Alcohol**  
intrathecal (chemical rhizotomy), for paraplegic clonus (Evangelou & Adriani), 16: 594  
intravenous, in treatment of postspinal headache (Deutsch), 13: 496
- Alveaire**  
adjunct for preventing pulmonary complications after thoracotomy (Ruben & others), 16: 801  
use of, and spreading factor as aids in pulmonary expansion in resuscitation of newborn infant (Bloxsom), 16: 41
- ALEXANDER, F. A. D., see BURSTEIN, C. L., jt. auth.
- ALEXANDER, F. A. D., see GREIF, E. W., jt. auth.
- Alidase: see Hyaluronidase
- N-Alkyl Thiobarbiturates: see under Barbiturates
- ALLAHWALA, A., see FISHER, C. W., jt. auth.
- ALLEN, C. R., ECHOLS, R. S., HOEFELICH, E. A., O'NEAL, K. C., and SLOCUM, H. C., Variations in the signs of acute oxygen-want during anesthesia, 8: 601
- ALLEN, C. R., ECHOLS, R. S., O'NEAL, K. C., and SLOCUM, H. C., The effects of premedication upon the signs of asphyxia during nitrous oxide-oxygen anesthesia, 10: 164
- ALLEN, C. R., HOEFELICH, E. A., COOPER, B. M., and SLOCUM, H. C., Influence of the autonomic nervous system upon spontaneous cardiac arrhythmias during cyclopropane anesthesia, 6: 261
- ALLEN, C. R., MURPHY, Q., and MEEK, W. J., The action of morphine in slowing the heart rate of unconditioned dogs, 6: 149
- ALLEN, C. R., and SLOCUM, H. C., Function of the anesthesiologist in the management of the patient with extensive burns, 13: 65
- ALLEN, C. R., STUTZMAN, J. W., FOREGGER, R., and MEEK, W. J., Cardiac arrhythmias which occur spontaneously in cats during cyclopropane anesthesia, 3: 530
- ALLEN, C. R., STUTZMAN, J. W., and MEEK, W. J., The production of ventricular tachycardia by adrenalin in cyclopropane anesthesia, 1: 158
- ALLEN, C. R., STUTZMAN, J. W., SLOCUM, H. C., and ORTH, O. S., Protection from cyclopropane-epinephrine tachycardia by various drugs, 2: 503
- ALLEN, C. R., see COOPER, B. M., jt. auth.
- ALLEN, C. R., see CORSEN, G., jt. auth.
- ALLEN, C. R., see EGGERS, G. W. N., jt. auth.
- ALLEN, C. R., see SLOCUM, H. C., jt. auth.
- ALLEN, C. R., see STUTZMAN, J. W., jt. auth.
- ALLEN, F. M., Refrigeration anesthesia for limb operations, 4: 12
- ALLEN, J. G., and LIVINGSTONE, H., Studies on the early postoperative reduction of prothrombin in the jaundiced and biliary fistula patient with special reference to anesthesia, 1: 89
- ALLEN, J. G., see TING, K. S., jt. auth.
- ALLEN, R. B., Undergraduate medical education and anesthesiology, 5: 441
- ALLEN, R. O., see ROSS, P. S., jt. auth.
- Allergy**  
cross sensitization from para-aminobenzoate in sunburn preventives (Gaul), 16: 606  
dermatitis due to rubber face piece and head harness (corr.), 14: 211  
to morphine (Salter and White), 10: 553
- N-Allylnormorphine (Nalline)  
biliary spasm and morphine (c.c.), 20: 713  
effect of, on normal subjects and review of literature (Huggins & Moyer), 16: 82  
and levallorphan effect of, on respiration during and after ether anesthesia (May & others), 18: 871  
effect upon the respiratory depression due to morphine in anesthetized man (Landmesser & others), 14: 535  
opiate antagonist (Eckenhoff & others), 13: 242  
respiratory effects in secobarbital narcosis (Weakley & Bergner), 18: 603
- Alphaprodine Hydrochloride (Nisentil)  
effect of, on respiration (Orkin & others), 16: 699  
with levallorphan tartrate or RO-7780 postoperatively (Megirian & others), 18: 610
- ALTSCHULE, M. D., Significance of changes in the lung volume and its subdivisions during and after abdominal operations, 4: 385
- Alveolar Ventilation: see under Respiration
- ALVER, E. C., and VANDER WOOD, J. M., The use of Banthine as a drying agent for pediatric anesthesia, 17: 73
- AMBROSE, A. M., see KNOEFEL, P. K., jt. auth.
- Adenoidectomy, device for support of head during (c.c.), 16: 146
- Adenosine Triphosphate (ATP)  
dephosphorylation by central depressants and stimulants, *in vitro* studies (Lu & Krantz), 14: 348
- American Society of Anesthesiologists, Inc.  
annual meeting (edit.), 14: 505  
change is inevitable (edit.), 17: 196  
democracy (edit.), 19: 798
- Anesthesiology**  
format (edit.), 20: 98  
reviews (edit.), 20: 98  
The Twentieth Year (edit.), 20: 214  
what you read (edit.), 20: 698
- Amidone (see Methadon)
- p-Aminobenzoate  
in sunburn preventives, cross sensitization from (Gaul), 16: 606
- p-Aminobenzoic acid, blood levels, following intravenous procaine (Hulpien & others), 11: 333
- Aminopherase: see Transaminase
- Aminophylline, bronchodilation under anesthesia (Cohen & others), 10: 451

- Ammonia, blood levels during ether and cyclopropane anesthesia (Goldberg & Hamilton), **20**: 836
- Ammonium Salts  
 intraspinal for the intractable pain of malignancy (Judovich & others), **5**: 341  
 intrathecal, spinal cord level syndrome following. A case report (Guttman & Purdee), **5**: 347  
 subarachnoid, therapy for intractable pain (Hand), **5**: 354
- Amnesia  
 -analgesia with nitrous oxide, physiological respirator producing (Frumin), **18**: 290  
 during labor, meperidine-scopolamine for, (Volpitto & Torpin), **10**: 15
- Amobarbital Sodium (Amytal Sodium)  
 effect on signs of asphyxia, during nitrous oxide anesthesia (Allen & others), **10**: 169  
 local anesthetic effects (Schiller), **14**: 321  
 spinal anesthetic effects of (Morrison & others), **12**: 315
- Amphetamine  
 comparison with other stimulants in morphine respiratory depression (Handley & Ensberg), **6**: 561  
 effect on pain threshold (Gross & others), **9**: 459
- Ampules  
 contamination of in spinal anesthesia (c.c.), **11**: 257  
 display (c.c.), **5**: 303  
 leaky, detection of (c.c.), **5**: 300
- Amytal Sodium: see Amobarbital Sodium
- Analeptics: see also under names of specific drugs  
 investigation of WIN 7969 (abs.), **18**: 161  
 newer, comparison with pentylenetetrazole, nikethamide and picrotoxin (abs.), **19**: 115
- Analgesia: see Anesthesia; Pain, relief
- Analgesics: see also under names of specific drugs and substances  
 and anesthesia in obstetrics (Hellijas & others), **8**: 113  
 anileridine dihydrochloride studies (Keats & others), **18**: 690  
 commonly used in young and aged, comparative respiratory effects of (abs.), **20**: 131  
 determination of (Strayer), **11**: 599  
 Dilaudid, intravenous use of (Betlach), **2**: 170  
 drug number 15431 as a supplement to nitrous oxide (Brotman & others), **11**: 527  
 effect of, on radiant heat thresholds (Keasling & Gross), **17**: 809  
 effect on blood gases during parturition (Brown & Volpitto), **11**: 651  
 effect on labor pains (Javert & Hardy), **12**: 189  
 relative potency of (Salter & White), **10**: 555  
 responses to, and placebo, statistical analysis (corr.), **18**: 792  
 studies of anileridine and dihydrocodeine (abs.), **18**: 168  
 supplementation of nitrous oxide with (Brotman & others), **11**: 527
- Analog Computers, application to physiological measurements (abs.), **20**: 138
- Anaphylactic reaction, after procaine (Schiff & Schiff), **10**: 753
- Anaphylaxis, and anesthesia (Carron), **8**: 625
- ANDERSCH, M. A., see KRANTZ, J. C., JR., jt. auth.
- ANDERSEN, D. H., Avertin poisoning with acute yellow atrophy of the liver and toxic necrosis, **6**: 284
- ANDERSON, B. M., Spinal anesthesia: our curious ambivalent attitude (edit.), **20**: 878
- ANDERSON, B. M., Use of methedrine as a vasoconstrictor with spinal anesthesia, **7**: 1
- ANDERSON, B. M., and ESSEX, H. E., Analysis of blood for certain barbiturates and the variability of their concentration in the blood, **4**: 113
- ANDERSON, B. M., and KINSELL, L. W., Anesthetic management during hypophysectomy for fulminant "juvenile" diabetes, **16**: 375
- ANDERSON, B. M., see BRANDES, T. H., jt. auth.
- ANDERSON, B. M., see WATROUS, W. G., jt. auth.
- ANDERSON, C. C., see TOVELL, R. M., jt. auth.
- ANDERSON, C. D., Supervised emergence of the anesthetized patient, **12**: 604
- ANDERSON, C. D., and ESSEX, H. E., Effects of certain premedicants on traumatic shock produced in animals under ether anesthesia, **4**: 475
- ANDERSON, C. D., and MILLER, E. M., Post-anesthesia unit in the private hospital, **10**: 351
- ANDERSON, C. E., see BONICA, J. J., jt. auth.
- ANDERSON, E., and RUBEN, J. E., Clinical use of Cyclaine (hexylcaine hydrochloride) for spinal and regional nerve block: report of 2000 cases, **13**: 429
- ANDERSON, LeG., see MOORE, D. C., jt. auth.
- ANDERSON, M. E., and LUNDY, J. S., Venous pressure in relation to blood volume in man, **10**: 145
- ANDORKO, J. E., see BLUNDELL, A. E., jt. auth.
- ANDREWS, P. M., MINOR, G. A., and EASTWOOD, D. W., Arterial oxygen saturation and respiratory minute volume: studies during induction with high concentration of nitrous oxide (abs.), **19**: 94
- ANDREWS, P. M., see SESSOMS, G. W., jt. auth.
- ANDROS, G. J., PRIDDLE, H. D., and BETHEA, R. C., Saddle block spinal anesthesia in obstetrics, with special reference to the use of Metylcaine, **10**: 517
- Anemia  
 factor influencing the effect of anoxia (Bollman & others), **12**: 421  
 sickle cell disease: anesthesiological problem (Shapiro & Poe), **16**: 771
- Anesthesia: see also under names of specific agents and procedures  
 acid-base balance during cyclopropane (Stor-mont & others), **3**: 369  
 acidosis during (Leigh), **3**: 429  
 anaphylaxis in (Carron), **8**: 625  
 anoxia during  
   role of in gastrointestinal effects of anesthesia (Van Liere), **5**: 400

variations in the signs of (Allen & others), 8: 601  
 apnea during, influence of morphine alone and combined with atropine or scopolamine (Burstein), 2: 530  
 apparatus: see Apparatus  
 aspiration of foreign body during (case report), 15: 213  
 associated movements in, winking-jaw phenomenon (Bortoluzzi), 20: 585  
 in Austria (edit.), 8: 534  
 automatic, clinical application of (Soltero & others), 12: 574  
 balanced, modern concept (Little & Stephen), 15: 246  
 Baltimore Study Committee organization and preliminary report (Phillips & Frasier), 18: 33; (corr.), 18: 653  
 barbiturate, respiratory effects of oxygen deficiency and carbon dioxide excess during (Gordh & Åström), 16: 245  
 basal  
   a comparison of rectal thiopental and morphine for, in children (Artusio & Trousdell), 11: 443  
   Seconal sodium in (Bush & others), 12: 447  
   with rectal thiopental, in children (Burnap & others), 9: 524  
 block,  
   ball point pen as an aid to (c.c.), 8: 541  
   brachial plexus  
     paralysis of phrenic nerve during (Shaw), 10: 627  
     pneumothorax incidence following (Moore & Bridenbaugh), 15: 475  
     with pontocaine (Moore), 9: 281  
   hexylcaine  
     clinical use of, for spinal and regional nerve block (Anderson & Rubin), 13: 429  
     usefulness in regional and topical anesthesia (Orkin & Rovenstine), 13: 465  
   hyaluronidase  
     hyaluronidase in (Moore), 11: 470  
     hyaluronidase with (Eckenhoff & Kirby), 12: 27  
   intercostal, with long acting anesthetics in upper abdominal operations (Belinkoff), 5: 500  
   lumbar epidural, aseptic meningitis following (case report), 16: 464  
   lumbar sympathetic  
     continuous (Ruben & Kamsler), 10: 92  
     Horner's syndrome, complication of (case report), 16: 811  
     meningitis, acute aseptic following (Adelman & Irwin), 7: 422  
     retroperitoneal hemorrhage following (case report), 12: 391  
   nerve (Bone), 612  
   paravertebral, for thorocoplasty (Hebert), 9: 538  
   prolongation of, by an indwelling catheter (Sarnoff and Sarnoff), 12: 270

saddle  
   effect on uterine motility (Howard & others), 10: 151  
   hyperbaric, for proctological surgery (Dye and Vaughn), 10: 489  
   in obstetrics (Andros & others), 10: 517  
 sciatic nerve, for vasodilatation of the lower extremity, comparative study with paravertebral lumbar sympathetic block (Marmer), 13: 207  
 skin marking for (c.c.), 4: 312  
 splanchnic, in gastric surgery (Hale & Shaar), 3: 392  
 stellate ganglion  
   use in cerebral vascular occlusions (Volpitto & Risteen), 4: 403  
   a definite anterolateral approach (Volpitto & Risteen), 5: 491  
   serial (case report), 12: 128  
   its significance in practice (Hickcox & others), 4: 150  
   simplified technique (c.c.), 7: 671  
   in the treatment of pulmonary embolus (Bageant & Rapee), 8: 500  
   after vascular surgery (Kistler & Ruben), 11: 342  
 suprascapular  
   nerve (Wertheim & Rovenstine), 2: 541  
   in therapy of shoulder pain (Milowsky and Rovenstine), 10: 76  
 sympathetic  
   acute aseptic meningitis following (Adelman & Irwin), 7: 422  
   nerve block (edit.), 4: 301  
   prolongation of, with bromsalizol in polyethylene glycol (Harmel & others), 8: 266  
   repeated, limitation and value (Faust), 7: 161  
   therapeutic and diagnostic; a plan for organization (Rovenstine & Hershey), 5: 574  
   transtracheal, for endotracheal intubation (Bonica), 10: 736  
   therapeutic, use of pontocaine (Moore), 11: 65  
 brain phosphokinase and (Carr & others), 16: 738  
 breathing in, studies of (Wu & others), 17: 696  
 carbon dioxide homeostasis during  
   evaluation of partial rebreathing system (Elam & Brown), 17: 128  
   instrumentation (Elam & others), 16: 876  
   total sampling for determination of dead space, alveolar ventilation and carbon dioxide output (Elam & Brown), 16: 886  
   ventilation and carbon dioxide elimination (Elam & Brown), 17: 116; (corr.), 17: 631  
 cardiac output, determination of, by dye dilution method, modification, comparison with Fick method, application during (Etsten & Li), 15: 217



- caudal  
 continuous  
   an analysis of its use in 500 obstetrical cases, using pontocaine (Brown & others), 7: 355  
   a comprehensive review (Hingson & Edwards), 4: 181  
   a new needle for (c.c.), 12: 397  
   use of hyaluronidase in (Payne and Rupp), 12: 164  
   low terminating dura (case report), 5: 412  
   in obstetrics, procaine-pontocaine single injection technic (Crawford & Chester), 10: 473  
   roentgenological study of the male sacrum as an aid in (Robin & Collins), 6: 505  
   for vaginal delivery (Bush), 20: 31  
   for vaginal delivery, complications (Bush), 20: 186  
 centennial in Great Britain (Bourne), 9: 239, 358  
 central nervous system and (Sonnenschein), 15: 19  
 chamber for small animals (c.c.), 20: 707  
 chloroform, in dogs, electroencephalographic and circulatory effects of (Pearcy & others), 18: 88  
 choice  
   in cardiac disease (Belinkoff), 7: 268  
   criteria in the (Saklad), 2: 172  
   circulation during ether anesthesia, neurogenic control (McAllister & Root), 3: 491  
   circulation, peripheral, during shock and hemorrhage; the digital plethysmograph as a clinical guide (Foster & others), 6: 246  
   circulatory arrest in patients with complete heart block during (abs.), 18: 175  
   in Cleveland Clinic, statistical analysis of (Curry & Hale), 10: 101  
 closed circuit, halothane in (Robson & others), 20: 251  
 colonic, oil-ether (Gwathmey), 3: 171  
 combustion characteristics of anesthetics (Lawrence & Bastress), 20: 192  
 comparative clinical and statistical study of thiopental and thiamylal in (Tovell & others), 16: 910  
 comparative study of ethylvinyl and trifluoroethylvinyl ethers (Park & others), 18: 250  
 complications of, see Complications, anesthesia, spinal complications, and specific agents and technics  
 conduction, in the management of eclampsia (Lund), 12: 693  
 cortisone, problems involving (Lundy), 14: 376  
 cyclobutane, anesthetic properties (Vandam & Dripps), 16: 48  
 cyclohexamine, new intravenous agent (Lear & others), 20: 330  
 in Czechoslovakia (corr.), 9: 318  
 deaths during, see Death  
 department of, Nuffield, a report from England (Foregger), 5: 81  
 depth,  
   changing concepts concerning (Woodbridge), 18: 536  
   effect on behavior of peripheral vascular bed (Hershey & others), 14: 245  
   relation to shock (Stephen), 13: 540  
 development of, see History  
 in dogs, compatibility of synthetic oxytocin with (Feldman & others), 19: 787  
 Dolitron, new intravenous (Tait & others), 17: 536  
 drugs and techniques, influence on intracranial tension (Stephen & others), 15: 365  
 effect on extracellular fluid, renal function and electrolyte excretion (Crawford & Gaudino), 13: 374  
 effect of gaseous agents on evoked central nervous system responses (abs.), 18: 161; (Davis & others), 18: 634  
 effect on scalp potential (Burge), 6: 61  
 effect of on thyroid activity (abs.), 20: 125  
 effects on thyroid function of rats (Oyama), 18: 719  
 effect of war on civilian anesthesia (edit.), 4: 637  
 electrical current as anesthetic agent (Knutson & others), 17: 815  
 electrocardiogram during, see Heart, electrocardiogram  
 electroencephalogram during, see Brain, electroencephalogram  
 endobronchial  
   endobronchial (c.c.), 18: 138  
   endobronchial (Björk & others), 14: 60  
   by means of an improved airway (Ruth & others), 9: 422  
   for intrathoracic surgery (Bonica & Hall), 12: 344  
 endotracheal  
   bilateral nasal intubation, for closed system anesthesia (Gordon), 5: 186  
   for cheiloplasty (Slocum & Allen), 6: 355  
   in children (Pender), 15: 495  
   of children, anatomic considerations of the larynx influencing (Eckenhoff), 12: 401  
   for cleft lip and cleft palate surgery (Leigh and Kester), 9: 32  
   in combat zone (Bowers), 6: 492  
   contact ulcer granuloma and other laryngeal complications of (Jackson), 14: 425  
   electrocardiographic changes during (Converse & others), 13: 163  
   improved technic (Grimm & Knig't), 4: 6  
   induction for, changes in blood gases associated with various methods (Lachman & others), 16: 29  
   for laryngeal surgery (Holinger & Cassels), 5: 583  
   naso-endotracheal, advantages and technique of "blind intubation" (Elder), 5: 392  
   positive pressure (Saunders), 10: 743  
   prolonged use of (case report), 12: 662  
   the relationship of nasotracheal and orotracheal intubation to respiratory morbidity (Gillespie & Conroy), 2: 28

semi-open (c.c.), 9: 315  
 sequelae (Donnelly & others), 9: 490  
 a technique and new laryngoscope for (Lloyd), 11: 206  
 without laryngoscopy (Hudon), 6: 476  
 epidural  
 (Lawrence), 9: 601  
 analysis of 3,637 cases and review (Bonica & others), 18: 723  
 blunt-tip needle for (c.c.), 19: 556  
 continuous  
 in treatment of pancreatitis (Walker & Pembleton), 14: 33  
 peridural (c.c.), 17: 626  
 segmental (Fruman & Appgar), 10: 733  
 segmental (Frumin & Schwartz), 13: 488  
 for thoracic surgery (c.c.), 14: 316  
 failure with (c.c.), 20: 716  
 for cordotomy (Krumperman & others), 18: 316  
 in general surgery (Lund & others), 17: 605  
 lumbar, clinical evaluation of drugs used in (Blundell & others), 16: 386  
 new indicator for (c.c.), 17: 210  
 segmental, with Intracaine (Abajian), 4: 372  
 in thoracic surgery (Crawford & others), 12: 73  
 for thoracic surgery (Crawford & others), 18: 241  
 toxic reaction in (corr.), 17: 632  
 economics of (edit.), 5: 521  
 equipment: see also Apparatus  
 from 1914 to 1954, experiments leading to development (Jackson), 16: 953  
 plea for standardization of (c.c.), 17: 503  
 sterile packaging of (c.c.), 20: 117  
 food before (preanesthetic breakfast) (c.c.), 4: 81  
 frontiers of (Tainter), 7: 132  
 gas, technical development (Miller), 2: 398  
 gastrointestinal effects of,  
 a comparative study of the action of various anesthetic agents on the colon of the dog (Van Liere & others), 5: 597  
 role of anoxia in (Van Liere), 5: 400  
 general,  
 apneic and hypotensive effects of local anesthetic drugs in dogs and mice under (Woods & Haggart), 18: 831  
 blood flow in sympathectomized limbs after (Beaconsfield & Messent), 16: 428  
 for cardiac catheterization (Eggers & others), 20: 817  
 cure during (Griffith & Johnson), 3: 418  
 effects of common respiratory phenomena during, on arterial blood pressure and pulse (Jones & others), 17: 325  
 effects of, on tissue oxygen tension: skin (Greene & others), 20: 830  
 muscle relaxant in, use of succinylcholine chloride (Helmsworth & Schotz), 16: 1009  
 sympatho-adrenal responses in man to, and their relation to hemodynamics (Price & others), 20: 563

geriatrics, see also Age  
 and anesthesia (Baird), 4: 17  
 problems of (Foldes), 11: 737  
 hyperglycemia during, mechanisms of (Johnson), 10: 379  
 hypertension during, in patients with spinal cord injuries (Ciliberti & others), 15: 273  
 hypotensive, see Hypotension  
 induction  
 Evipal for (Burstein), 13: 193  
 Evipal sodium, electrocardiographic studies during endotracheal intubation (Dance & others), 17: 730  
 electrocardiographic studies during (Virtue & Pierce), 12: 442  
 simple aid for, in children (c.c.), 15: 214  
 influence of, on neuromuscular blocking activity of Mylaxen (Cavallito & others), 17: 547  
 inhalation  
 massive bilateral pulmonary atelectasis during (case report), 15: 571  
 nomenclature for (Moyers), 14: 609  
 nomenclature for (corr.), 16: 149  
 systems, denitrogenation with (Hamilton & Eastwood), 16: 861  
 inorganic gases in (Adriani & Batten), 3: 560  
 insulin shock during thiopental and cyclopropane (Papper & others), 3: 660  
 intra-abdominal (urgent) surgical procedures in patients with cardiovascular disease, anesthesia for (Johnson & Livingstone), 15: 150  
 intratracheal: see Anesthesia, endotracheal  
 intravenous  
 anesthesia, intravenous (Lundy & Adams), 1: 144  
 anesthesia, intravenous (Adams), 8: 489  
 Avertin (Dwyer & others), 14: 291  
 barbiturates, effect of azotemia upon action of (Dundee & Richards), 15: 333  
 Bier's regional method, a modification of (Herreros), 7: 558  
 continuous method with thiopental (Stevens), 6: 376  
 continuous drip method, an appliance to facilitate (c.c.), 5: 411  
 duration of, influence of the liver and kidney in barbiturate anesthesia (Masson & Beland), 6: 483  
 kit for (c.c.), 5: 89  
 (new), Dolitrone (Tait & others), 17: 536  
 new nonbarbiturate (Dolitrone) agent, comparison of cardiovascular properties with thiopental (Cotten & Bay), 17: 103  
 new ultrashort acting, methitural sodium (Fitzpatrick & others), 17: 684  
 wartime  
 a critique of intravenous anesthesia in war surgery (Hulford), 4: 67  
 the question of intravenous anesthesia in war surgery (edit.), 4: 74  
 sodium Pentothal: experience in the combat zone (Rose), 4: 534

- wartime use of Pentothal (Lieberman), 5: 517
- isopropyl chloride, clinical evaluation (Liang & Dodd), 17: 297
- learning of (Bourne), 10: 157
- liquid, nebulizer for (c.c.), 18: 131
- literature
- (edit.), 6: 81
  - (edit.), 12: 767
- observations on (McQuillen), 8: 80
- local
- agents
- influence of halogen substitution on toxicity (Foldes & others), 17: 187
  - pharmacology of, special reference to use in spinal anesthesia (Greene), 16: 573
  - clinical investigation (Bonica), 18: 110
  - comparative qualities of Xylocaine, Cyclaine and Pravocaine (Crawford), 14: 278, (correction), 14: 623
  - drugs in dogs and mice under general anesthesia, apneic and hypotensive effects (Woods & Haggart), 18: 831
  - duration of in relation to concentrations of procaine and epinephrine (Leser), 1: 205
  - during general anesthesia (corr.), 6: 416
  - dyclonine, new agent (Harris & others), 17: 648
  - effect of, on respiration of rat brain cortex in vitro (Geddes & Quastel), 17: 666
  - effects of sodium Amytal (Schiller), 14: 321
  - histopathological effects of prolonged exposure of nerves to (abs.), 20: 134
  - for neurosurgery (Teplinsky & others), 10: 84
  - penetrance of (Brown & Luduena), 14: 555
  - pharmacologic studies in search of a suitable drug for (Abajian), 4: 528
  - prolonged, with Elocaine (Ansbro), 13: 306
  - properties of ephedrine hydrochloride (Schultz), 1: 69
  - Ravocaine and Sympocaine (Luduena), 16: 751
  - and regional (Seldon & Lundy), 3: 540
  - for thoracic surgery (Gruenwald & Sword), 10: 295
  - toxicity, pharmacological re-evaluation (Steinhaus), 18: 275
- management
- cessation of circulation in general hypothermia (Zeavin & others), 15: 113
  - during hypophysectomy for fulminant "juvenile" diabetes (Anderson & Kinsell), 16: 375
  - of hypophysectomized patients (Tung & others), 17: 739
  - of infants and children with double aortic arch (abs.), 18: 175
  - of patient with myotonia dystrophica (c.c.), 20: 717
  - median nerve neuropathy following (c.c.), 17: 828
  - mental suggestion as aid to (Raginsky), 9: 472
  - monitoring, instrumentation and (edit.), 19: 676
  - microhematocrit, serial, determinations in (Norris & Hall), 20: 799
  - and muscle relaxants, effect on elastic properties of human thorax (abs.), 20: 134
  - music with (Cherry & Pallin), 9: 391
  - narcotic and barbiturate depression in, comparative effects of levallorphan tartrate on respiratory responses to carbon dioxide during (Landmesser & others), 16: 520
  - nasopharyngeal administration (c.c.), 13: 552
  - nonbreathing
    - method in pediatric anesthesia (Stephen), 13: 77
    - system (c.c.), 20: 886
    - use of (Baumgarten & Betcher), 15: 188  - obstetrical: see under Obstetrics
  - open system intubation, "Y" adapter for (c.c.), 14: 618
  - organized, jubilee year (Betcher & others), 17: 226
  - pediatric: see Children
  - phrenic nerve block, continuous (Sarnoff & Sarnoff), 12: 270
  - pituitary-adrenal response to, eosinopenic response (Traina & others), 14: 449
  - planes, phylogenetic in anesthesia (Davis), 14: 299
  - positive pressure (Saunders), 10: 743
  - potency, correlation of van der Waals' constants with (Wulf & Featherstone), 18: 97
  - premedicant, chlorpromazine, review and investigation (Dobkin & others), 17: 135
  - procedures, circulation during (edit.), 15: 700
  - prolonged surgical, serum transaminase levels following (Lawrence & Schulkins), 17: 531
  - properties of
    - certain fluorinated hydrocarbons and ethers (Lu & others), 14: 466
    - 1,1,1-trichloroethane (Krantz & others), 20: 635  - psychosomatic aspects of (Raginsky), 11: 391
  - records, see also Records
    - (edit.), 14: 311
    - (c.c.), 19: 410  - Chicago Keysort (Conroy & others), 9: 121
  - color of (c.c.), 4: 312
  - a combined anesthesia and statistical card (Pender), 7: 606
  - combined keysort anesthesia and recovery (Livingstone & others), 11: 422
  - grading of patients (Saklad), 2: 281
  - Illinois E-Z Sort card (Sadove & Levin), 19: 178
  - keysort (corr.), 8: 204
  - in military service (Wangeman), 2: 179
  - protection for (corr.), 18: 509
  - recording of surgical and anesthetic data in two army hospitals (Wangeman & Martin), 6: 646
  - simplified punch card (c.c.), 16: 145
  - recovery from thiopental and methitural-nitrous oxide, for a standard short procedure (Gale), 18: 573
  - recovery time following Demerol or Pentothal supplementation of nitrous oxide (Widdowson & others), 16: 747



rectal oil-ether (Gwathney), 3: 171  
refrigeration for limb operations (Allen), 4: 12

regional

regional (Seldon & Lundy), 3: 540  
combined with cyclopropane for abdominal relaxation (McCuskey), 1: 26  
meprobamate, pentobarbital and placebo as preanesthesia medication for (Eger & Keasling), 20: 1  
mobile equipment (c.c.), 288; (corr.), 16: 651

for operations about the head and neck (Mousel), 2: 61  
for operations about the neck and upper extremity (Adams), 2: 515  
for operations on the perineum, anus, genitalia and lower extremities (Tuohy), 2: 369  
for procedures around the vertebral column (Seldon), 2: 669  
pyribenzamine, evaluation of effectiveness as analgesic agent in (Betcher & Tang), 16: 214  
role of antihistaminic drugs in (Stephen & others), 15: 601  
for surgery of the thorax and abdominal wall (Seldon), 2: 195  
trends in (Hellijas & Tovell), 9: 400  
use of hexylcaine (Orkin & Rovenstine), 13: 465

regurgitation and aspiration (silent) during (Berson & Adriani), 15: 644  
relation to heart disease (Reid), 2: 161  
relation of respiratory passages to (Iglauer), 3: 195  
repeated (case report), 9: 198  
repeated (case report), 10: 111  
respiration during, recent developments in the physiology of (Schmidt), 6: 113  
respiratory patterns during nitrous-oxide, oxygen, ether (Ridley & Faulconer), 13: 119  
resuscitation under, early reports (Stetson), 20: 62

risk

ballistocardiogram, aid in evaluation (Wang & Howland), 17: 578  
Negro as anesthetic risk (Poe), 14: 85  
semiclosed systems, concentration of inhaled gases in (Ruben), 14: 459  
service, for small hospitals (Griffith), 3: 553  
significant form in (edit.), 16: 454

signs of

analysis of inhalation anesthesia by graphic means (Saunders), 5: 278  
and stages, traditional, electroencephalographic and clinical study (Galla & others), 19: 328  
with Pentothal, physiologic basis (Etsten & Himwich), 7: 536

spinal

spinal (edit.), 20: 878  
for abdominal perineal resection (Wilkinson), 3: 437

analgesia

for children (Slater & Stephen), 11: 709  
in children (Berkowitz & Greene), 12: 376  
with lucaïne, critical appraisal (Greene & others), 17: 165  
with solutions of procaine and epinephrine, report of 108 cases (Prickett & others), 6: 469

for translumbar aortography (Feldman & others), 15: 66

antihistaminic drugs in, role of (Stephen & others), 15: 601

Aramine as pressor agent during (Poe), 15: 547

blood gas studies during (Latterell & Lundy), 10: 677

blood pressure during, regulation of (Milwidsky & de Vries), 9: 258

case report (c.c.), 19: 682

changes in the velocity of the blood flow during (Doud & Rovenstine), 1: 82

circulatory adjustments in normal man with special reference to the autonomy of arteriolar tone (Rovenstine & others), 3: 421

combined epinephrine-ephedrine during (Rochberg & Apgar), 3: 49

complications

abducens nerve

palsy following (Sternberg & Bishop), 7: 296

paresis, following (Kennedy & Lockhart), 13: 189

cervical arachnoiditis (Haynes & Smith), 3: 444

cranial palsies following, prevention of (Greene & others), 15: 302

following (Parke), 9: 440

headache

(Glesne), 11: 702

after, experiments with a new needle (Haraldson), 12: 321

etiology and treatment of (Krueger & others), 12: 477

prevention of headache following, use of epidural saline (Kaplan & Arrowood), 13: 103

postlumbar puncture headache following (Harris & Harmel), 14: 390

unflexed back and low incidence of severe headache following (Rosser & Schneider), 17: 288

use of peridural and subarachnoid saline in the treatment of (Rice & Dabbs), 11: 17

value of a 26 gauge lumbar puncture needle in prophylaxis of (Greene), 11: 464

insulin hypoglycemia during (Peterson & others), 4: 625

massive pulmonary collapse during (Pallin & Goldman), 10: 325

- neurologic complications following (Bergner & others), 12: 717
- pulmonary edema as a complication of (case report), 4: 640
- unusual incidents following (Smith), 7: 419
- concentration of Pontocaine hydrochloride in cerebrospinal fluid during, influence of epinephrine in prolonging the sensory effect (Converse & others), 15: 1
- contraindication of, for translumbar aortography (corr.), 16: 649
- continuous
- continuous spinal (Brown), 10: 193
  - continuous spinal (Hale & Shaar), 5: 53
  - continuous spinal anesthesia (Apgar), 3: 522
  - drop method for subarachnoid analgesia (Arrowood & Foldes), 5: 465
  - "Injectomat" for (de Ciutiis & Fierro), 12: 708
  - modification for control of dosage (Dillon & Wycoff), 7: 631
  - modified technic (Cann & Wycoff), 9: 288
  - therapeutic use of, to relieve vasospasm and pain in peripheral embolism (Smith & Rees), 9: 229
  - in treatment of acute pulmonary edema (c.c.), 19: 561
  - its usefulness and technic involved (Tuohy), 5: 142
  - cough test for (c.c.), 10: 639
  - dangers (edit.), 11: 254
  - in obstetrics (Greenhill), 11: 283
  - defense of (Cole), 13: 407
- dibucaine
- and dextrose 1:1500 solution for (Stankey & Whitacre), 2: 203
  - in dilutions greater than 1:1500 for (Fisher & Whitacre), 8: 584
  - glucose (Roman & Adriani), 10: 270
- differential spinal in the investigation of pain following amputation (Arrowood & Sarnoff), 9: 614
- duration of effects of combining nonanesthetic substances with the agent (Homeyer & others), 13: 231
- effect
- on blood volume (Guest & others), 10: 289
  - on circulation (Eather & others), 10: 125
  - on liver (Hugill), 11: 567
  - of sympathomimetic amines on duration of (Helrich & others), 12: 597
  - of vasoconstrictors on duration of (Bray & others), 10: 40
- failures, relation of the hydrogen ion concentration of the spinal fluid to (Cohen & Knight), 8: 594
- fractional, malleable cone-tip needle for (Cappe & Deutsch), 14: 390
- heat sterilization
- of ampuls (abs.), 18: 164
  - of ampuls (Gerlich & others), 19: 394
- hexylcaine, spinal anesthesia with (Anderson & Rubin), 13: 429
- in hyperthyroidism to control sympathetic over activity (Knight), 6: 255 (corr.); 6: 531
- hypobaric (Snyder), 12: 301
- hypotension during treatment of, with neosynephrine (Kreul & Orth), 12: 455
- influence of premedicating drugs on vasomotor stability during (abs.), 20: 135
- lateral approach (Surks & Wood), 12: 239
- lateral approach for (Ash), 16: 445
- lucaine
- analgesia with (Cull & Schotz), 11: 353
  - in the study of (Conner & Dripps), 11: 686
  - a new piperidine derivative for (Finer & Rovenstine), 8: 619
- localization of catheters (Sarnoff), 11: 380
- mephentermine as pressor agent during (Smessaert & Collins), 16: 795
- methedrine as a vasoconstrictor with (Anderson), 7: 1
- methoxamine as a pressor agent during (Poe), 13: 89
- monocaine formate
- anesthesia with (Nesbit & Butler), 9: 430
  - anesthesia with (Rovenstine & Apgar), 5: 40
- motor driven, continuous (de Ciutiis & Fierro), 12: 708
- multiple autoclaving of drugs use in (Carter & others), 15: 480
- nausea and vomiting
- during (Crocker & Vandam), 20: 587
  - during, effect of medication (Sellman), 2: 333
- new needle for intrathecal puncture (c.c.), 18: 336
- Nupercaine: see Anesthesia, spinal, dibucaine; Dibucaine
- oenethyl as a vasopressor with (Roman-Vega & Adriani), 7: 62
- Pontocaine: see Anesthesia, spinal, tetracaine; Tetracaine
- procaine Pontocaine solution (Marvin), 9: 434
- prolongation
- by vasoconstrictors (Sergeant and Dripps), 10: 260
  - by vasoconstrictors (Bonica & others), 12: 431
- prolonged (seven, eleven and fourteen days) (Ansbro & others), 15: 569
- prothrombin level effect on (Levy & Conroy), 7: 276
- pulmonary edema treatment of, by spinal anesthesia (Sarnoff & Farr), 5: 69
- reactions to, immediate (Berens), 11: 350
- respiratory sequelae in military practice (Kaye), 5: 383
- saddle
- hyperbaric for proctological surgery (Dye & Vaughn), 10: 489
  - in obstetrics (Andros & others), 10: 517
- segmental
- segmental spinal (Saklad & others), 8: 270
  - in poor risk patients (Brown), 13: 416

- and segmental peridural, sites of sensory blockade (Frumin & others), 14: 576  
utilizing the continuous technique of Tuohy (Kamsler & others), 13: 397  
serial spinal anesthesia (Haugen & others) 52 (corr.), 3: 214  
specific gravities of common spinal anesthetic solutions (Davis & King), 13: 184  
spread of drugs used for (c.c.), 17: 205  
survey from 1949 through 1952 (Grady), 15: 310  
technics (Schumacher & Eversole), 3: 630  
temperature during (Foregger), 4: 392  
tetracaine, hyperbaric, area of differential block in (Greene), 19: 45  
tolerance to procaine (Burford), 3: 159  
total block (CoTui & others), 1: 280  
use of local anesthetic agents in, pharmacology of (Greene), 16: 573  
with barbiturates (Morrison & others), 12: 315  
stages: see Anesthesia, depth  
steroid  
    effects of, upon cardiac rhythm of dog (Traina & others), 17: 787  
    use of (Howland & others), 17: 1  
study commissions (edit.), 10: 755  
succinylcholine  
    and blood cholinesterases, interrelationship during (Borders & others), 16: 401  
    dose response relationship and duration of action, in (Espinosa & Artusio), 15: 239  
    surface agent, Tronothane (Peal & Karp), 15: 637  
surgery, before the days of (Clement), 14: 473  
in Sweden (corr.), 10: 234  
teaching  
    teaching of anesthesia (Mushin), 19: 131  
    at Tilton General Hospital (Martin), 3: 433  
tetracaine (Pontocaine): see also Tetracaine  
    crystalline, subarachnoid block with (Garth), 2: 205  
    dextrose-epinephrine for (Potter & Whitacre), 7: 499  
    effect on blood volume (Guest & others), 10: 289  
    glucose prolongation of by vasopressors (Sergent and Dripps), 10: 260  
    hypobaric  
        anesthesia with (Lund & Rumball), 8: 181  
        evaluation of (Ruben & Kistler), 10: 621  
        a new technic (Lund & Cameron), 6: 565  
theory of, based on protoplasmic behavior (Seifriz), 2: 300  
topical  
    endolaryngeal (c.c.), 20: 119  
    hexylcaine (c.c.), 14: 315  
    use of hexylcaine (Orkin & Rovenstine), 13: 465  
    hyaluronidase with, for intubation (Howland & Papper), 12: 688  
    an objective method of evaluating, utilizing laryngeal reflex, effect of methylcellulose, triton A-20, and hyaluronidase (Clark & others), 15: 161  
Pyribenzamine in bronchoscopy (Mathieu & Crandell), 14: 572  
reflex circulatory responses to tracheal intubation performed under (King & others), 15: 231  
transoral, device for (c.c.), 18: 507  
tracheal with lidocaine (c.c.), 19: 803  
transfusion reactions during (Nicholson), 9: 348  
translaryngeal (Gold & Beuchel), 20: 181  
transtracheal  
    for endotracheal intubation (Bonica), 10: 736  
    pretracheal abscess after (c.c.), 20: 719  
travel clubs (edit.), 8: 402  
vaporizers: see under Apparatus, 19:  
volatile anesthetics, quantitative measurement of mucosal irritation (Lu & others), 14: 143  
wartime: see Military Services  
Anesthesia Equipment: see Apparatus  
Anesthesia Study Commission, report of (Pallin), 12: 583  
Anesthesiologists  
    as clinician (edit.), 13: 108  
    as consultant (edit.), 12: 244  
    billing of patient by (edit.), 9: 652  
    function in the management of the patient with extensive burns (Allen & Slocum), 13: 65  
    income of (edit.), 8: 641  
    malpractice related to (Murphy & Martin), 20: 99  
    mobilization of (edit.), 2: 90  
    need for and training of in the program of preparedness (Lahey), 1: 341  
    occupational hazard, "unguis dominantis" (c.c.), 20: 720  
    the place of in American Medicine (Haggard), 1: 1  
    relation to hospital planning (Wheeler & Cassels), 8: 567  
    relation to public (edit.), 10: 634  
    relations with surgeon (Sanders), 6: 273  
    relation with surgeon (corr.), 7: 204  
    role of, in management of intractable pain (Bonica), 16: 854  
    sociologic obligations of (edit.), 5: 192  
    surgeons and malpractice suits (edit.), 20: 377  
    training of, wartime (Tovell), 8: 62  
Anesthesiology  
    Anesthesiology (edit.), 2: 339  
    Anesthesiology (edit.), 8: 641  
    application of blood volume studies utilizing radiochromium 51 method to (Abajian & others), 16: 733  
    biometry in (Ting), 13: 1  
    civil defense and (edit.), 15: 436  
    corporate practice of the professions (edit.), 13: 642  
    clinical research in (Adams), 11: 178  
    consultative practice (edit.), 15: 320  
    department of, in a Veterans Administration Hospital (Foregger & Tella), 12: 234

- doctor-patient relationship (edit.), 13: 545  
 education in (edit.), 20: 879  
 electroencephalography in (review) (Martin & others), 20: 359  
 experimentation in (edit.), 14: 612  
 future (edit.), 6: 196  
 graduate education in (edit.), 7: 561  
 group private practice, tested plan of organization (Eather), 15: 689  
 group practice of (Ausherman), 11: 41  
 in practice of medicine (edit.), 10: 223  
 invitation for inquiries (edit.), 14: 203  
 lure of (edit.), 13: 322  
 on misunderstanding the opportunities in anesthesia (edit.), 18: 498  
 organization and (edit.), 7: 198  
 postgraduate training in (Murphy), 12: 50  
 practice, fees (miscellany), 18: 344  
 practice of (edit.), 13: 435  
 problem in, sickle-cell disease (Shapiro & Poe), 16: 771  
 post-war (edit.), 6: 528  
 progress in (edit.), 6: 617  
 relation of research to (Dripps), 10: 690  
 Residency Review Committee (miscellany), 18: 914  
 residents, supply of (edit.), 12: 388  
 and semantics (edit.), 8: 312  
 statistical systems in (Saklad & Sellman), 7: 146  
 study commission (Pallin), 12: 583  
 a surgeon comments on (edit.), 2: 207  
 teaching of (Rupp), 12: 486  
 therapeutic nerve block, emphasis on problems of pain relief (Vandam & Eckenhoff), 15: 89  
 training of residents (edit.), 14: 90  
 trends in (Lundy), 11: 238  
 undergraduate education (Allen), 5: 441  
 in Veterans Administration (edit.), 7: 310  
 World Federation of Anesthesiologists (edit.), 15: 202  
 Anesthetics: see also names of specific drugs and agents  
   agents  
     antidiuretic effects of (Bachman), 16: 939  
     effect of, and techniques on twenty-four hour 1-131 uptake (abs.), 20: 138  
     effect on evoked central nervous system responses (Davis & others), 19: 441  
     glutethimide as (abs.), 20: 137  
     pharmacological action of, in irradiated animals (Wilson), 16: 503  
     potency and uncoupling of oxidative phosphorylation (Hulme & Krantz), 17: 43  
     analysis of mixtures of oxygen, nitrous oxide, ether and nitrogen (Faulconer & Ridley), 11: 265  
     bronchi and bronchioles, of excised lung tissue, effect on (Adriani & Rovenstine), 4: 253  
     colon, effect on (Van Liere & others), 5: 597  
     comparison of, on incidence of ventricular fibrillation in experimental hypothermic ventriculotomy (Anlyan & others), 19: 213  
     drugs fate in the body (Adriani), 1: 312  
     evaluation of new agents (Beecher), 2: 443  
     evaluation of peripheral circulatory changes as a basis for (Hershey & others), 6: 362  
   explosions  
     the hazard of (Greene), 2: 144  
     prevention of (Horton), 2: 121  
   gaseous  
     history of (Bourne), 8: 227  
     uptake by body, factors governing (Kety), 11: 517  
   general, effect on small blood vessels in the ear of the rabbit (Seldon & others), 3: 146  
   influence on bacterial flora of the upper respiratory tract (Schapiro & Arnold), 2: 80  
   inhalation, effect on myocardium (Fisher & others), 12: 19  
   local  
     composition, optimal, summary of studies on (Tainter), 2: 489  
     cytotoxicity (Gittelson), 10: 202  
     determination of (Strayer), 11: 599  
     detoxication, studies on effects of calcium, potassium and sodium salts (Wastl), 2: 74, 661  
     essential characteristics of (Beutner & others), 3: 673  
     evaluation of, some general considerations in patients (Tainter & Winter), 5: 470  
   hyaluronidase  
     use of in caudal block (Payne & Rupp), 12: 164  
     use of in local and nerve block analgesia (Moore), 12: 611  
     use of in regional nerve blocks (Eckenhoff & Kirby), 12: 27  
     use of with topical anesthesia for endotracheal intubation (Howland & Papper), 12: 688  
   liver, effect on (Hugill), 11: 567  
   in oil, effect on nerve fiber (Duncan & Jarvis), 4: 465  
   mechanism of action, cell respiration and fermentation as a background for the study of (Field), 8: 127  
   Monocaine hydrochloride, pharmacological effects of (Schamp & others), 3: 295  
   new piperidine derivatives (Rose & others), 9: 373  
   potency of some new piperidine derivatives (Hunt & Fosbinder), 1: 305  
   reaction to (case report), 6: 421  
   spinal, contamination of (c.c.), 11: 257  
   theory of action (Seifriz), 11: 24  
   peripheral vascular homeostasis, effect on (Hershey & Zweifach), 11: 145  
   relation to cell metabolism (Gerard), 8: 453  
   small intestine, tone and motility of, effect on (Golden & Mann), 4: 577  
   sterilization of, spinal (corr.), 13: 441  
   sulfonamide antagonism: an evaluation of local anesthetics for use with sulfonamide therapy (Pfeiffer & Grant), 5: 605  
   topical  
     peppermint flavored (c.c.), 9: 88  
     a search for the least irritant (Dietrich & Beutner), 7: 255

- toxicity, a comparative study (Steinhaus), 13: 577
- uterine motility, effect on (Howard & others), 10: 151
- volatile
- action on muscle preparations (Sabawala & Dillon), 19: 587
  - agents and muscle relaxants, effect on evoked central nervous system responses in cat (abs.), 19: 98
  - drugs, determining vapor concentrations of (Fabian & others), 19: 51
  - irritative action on the mucous membranes and the relationship between potency and chemical constitution (Krantz & others), 5: 291
  - mixtures of, effect on arterial blood oxygen (Thorton & others), 6: 498
  - water exchanges due to (Barbour), 1: 121
- Anesthetic Systems: see under Apparatus
- ANGELAKOS, E. T., see ANLYAN, F., jt. auth.
- Anileridine Dihydrochloride (Leritine)
- preoperative medication (c.c.), 20: 113
  - studies of analgesic drugs (Keats & others), 18: 690
  - studies of new potent analgesics (abs.), 18: 168
- ANLYAN, F., HASTINGS, E. P., and ANGELAKOS, E. T., Comparison of anesthetics on incidence of ventricular fibrillation in experimental hypothermic ventriculotomy, 19: 213
- Anoxia: see also Oxygen, deficiency
- blood-sugar, effect on (Johnson), 10: 379
  - brain and symptomatology of (Himwich), 10: 663
  - central nervous system, effect on (Burdick & others), 10: 369
  - detection of, by the oximeter (Stephen & others), 12: 541
  - during Avertin anesthesia (corr.), 6: 417
  - during intrathoracic surgery (Thornton & others), 4: 266
  - during nitrous oxide anesthesia, hazard of (Barach & Rovenstine), 6: 449
  - ether anesthesia and cerebral anoxia (Courville), 2: 44
  - factors influencing (Bollman & others), 12: 420
  - gastrointestinal effects, role of, in anesthesia (Van Liere), 5: 400
  - neonatal, its prevention and treatment (Little & others), 13: 518
  - some observations on (Lucas), 12: 762
- ANSBRO, F. P., IASON, A. H., SHAFTEL, H. E., HALPERN, A., LATTERI, F. S., and BODELL, B., Development of Efocaine, a new approach to prolonged local anesthesia, 13: 306
- ANSBRO, F. P., see BLUNDELL, A., jt. auth.
- Antabuse anesthetic agents and (Cooper & others), 14: 29
- Antagonism of barbiturate and meperidine by Ritalin (abs.), 19: 101
- Antibiotics, action of, on human intercostal nerve-muscle complex (Sabawala & Dillon), 20: 659
- Anticholinergic Drugs: see also Atropine; Scopolamine; Methantheline Bromide
- in preanesthetic medication (Stephen & others), 17: 303
- Antiemetics: see also under names of specific agents
- efficacy of cyclizine and triflupromazine (Bellville & others), 20: 761
  - method for clinical evaluation of (Bellville & others), 20: 753
- Antihistamines: see also under names of specific drugs
- role of antihistaminic drugs in regional and spinal analgesia (Stephen & others), 15: 601
- Antisepsis: see also Decontamination
- endotracheal tubes and face masks (McDonald & others), 16: 206
- ANTONETTI, J., OTTOLENGHI, R., and DRIPPS, R. D., Use of a succinylcholine extender, 16: 742
- ANTOPOL, W., see HERSHEY, S. G., jt. auth.
- Anuria, treatment, intravenous procaine (Graubard & Peterson), 10: 184
- Aorta
- double aortic arch, anesthetic management of infants and children with (abs.), 18: 176
  - insufficiency (aortic), anesthetic problems of surgical correction of (O'Donnell & McDermott), 16: 343
  - roentgen study
    - spinal analgesia for translumbar aortography (Feldman & others), 15: 66
    - spinal analgesia for translumbar, contraindication to (corr.), 16: 649
- Aortography: see Aorta, roentgen study
- APGAR, V., Continuous spinal anesthesia, 3: 522
- APGAR, V., Treatment of untoward effects from nitrogen, 3: 265
- APGAR, V., see FOOT, E. B., jt. auth.
- APGAR, V., see FRUMIN, M. J., jt. auth.
- APGAR, V., see ROCHBERG, S., jt. auth.
- APGAR, V., see ROVENSTINE, E. A., jt. auth.
- Aphonia, treatment of by the intravenous administration of Pentothal sodium (Gold & Garofalo), 1: 94
- Apnea
- arterial oxygen desaturation during (Weitzner & others), 20: 624
  - compliance in apneic anesthetized adults (Safar & Aguto-Escarraga), 20: 283
  - during anesthesia, influence of morphine alone and combined with atropine and scopolamine (Burstein), 2: 530
  - and hypotensive effects of local anesthetic drugs in dogs and mice under general anesthesia (Woods & Haggart), 18: 831
  - from neuromuscular block, urine secretion during diffusion respiration after (Irwin & others), 18: 594
  - induced by intracisternal injection of procaine hydrochloride, urine secretion during diffusion respiration following (Irwin & others), 16: 665



- induced by succinylcholine, effect of calcium on duration (Irwin & others), 17: 759
- observation in conscious human subjects (Rumble & others), 18: 419
- oxygenation (Frumin & others), 20: 789
- prolonged
  - causes and treatment of (Churchill-Davidson), 20: 535
  - following cardiac exploration (case report), 15: 441
- succinylcholine (c.c.), 17: 368
- Apomorphine, the utility of in clinical anesthesia (Rovenstine & Hershey), 6: 574
- Apparatus: see also specific items
- acoustic gas analyzer (Faulconer), 10: 1
- adapter
  - for ECG electrodes (c.c.), 20: 383
  - for gastrointestinal tubes (c.c.), 10: 643
- air-embolism, device to prevent during venoclysis (c.c.), 6: 308
- airway, plastic (c.c.), 10: 358
- ampule
  - container (c.c.), 8: 645
  - holder (c.c.), 5: 303
- aneroid manometer for arterial blood pressure (c.c.), 18: 906
- anesthesia
  - decontamination of (Cross), 16: 903
  - equipment "carry all" (inexpensive) (c.c.), 15: 439
  - equipment kits (c.c.), 15: 323
  - from 1914 to 1954, experiments leading to development (Jackson), 16: 953
  - suggestions for standardization (c.c.), 16: 1025
- anesthetic
  - cabinet (c.c.), 20: 712
  - equipment panel (c.c.), 10: 637
  - vaporizers: see also Apparatus, vaporizers
  - design and function (Morris & Feldman), 19: 642
  - physical basis for functional classification (Faulconer), 18: 372
- arm
  - board
    - double (c.c.), 8: 540
    - specifications for (c.c.), 9: 443
  - guard (c.c.), 11: 636
  - guard (c.c.), 13: 326
  - holder (c.c.), 4: 644
  - rest (c.c.), 5: 88
  - rest-screen (c.c.), 12: 254
  - support (c.c.), 6: 418
  - support (c.c.), 7: 569
- for arterial bleeding (Hale), 9: 499
- audiovisual monitoring of unborn infant (abs.), 19: 104
- Ayre's T-piece, modified, positive-negative pressure ventilation with (Eger & Hamilton), 19: 611
- ball point pen, an aid in regional anesthesia (c.c.), 8: 541
- blood pressure
  - automatic recording of (Slocum), 3: 141
  - cuffs for infants (c.c.), 17: 363
  - improved (c.c.), 10: 764
  - indirect, photo-sphygmometer in measurements (c.c.), 20: 704
  - modified cuff (c.c.), 6: 533
  - stethoscope modification of (c.c.), 6: 310
  - for blood replacement, rapid (c.c.), 10: 645
- blood transfusion
  - agitator (c.c.), 9: 91
  - apparatus for (c.c.), 4: 203
- bronchoscopy suction tip (new), improved method of obtaining wash specimens in bronchoscopy (c.c.), 16: 1038
- brush for cleaning endotracheal catheters (c.c.), 17: 750
- Buchanan oral-pharyngeal rebreathing tube, modified (c.c.), 11: 256
- cabinet (c.c.), 9: 88
- cairivibograph, special method for recording actions of heart (Jackson), 16: 536
- canister circle filter double (c.c.), 14: 415
- carbon dioxide
  - absorber
    - experimental studies on (Adriani & Rovenstine), 2: 1
    - Heidbrink circle absorption head (No. 9B) for administration of mixtures of trichloroethylene and air (c.c.), 15: 327
    - improved (c.c.), 18: 339
  - absorption appliances, the canister (Adriani & Boyd), 2: 450
  - absorption defective in anesthetic machine (c.c.), 17: 829
  - analyzer (new and inexpensive) (abs.), 19: 97
- cardiac
  - monitoring (c.c.), 20: 217
  - pacemaker (c.c.), 19: 563
- cardiotachoscope (Himmelsstein & Scheiner), 13: 62
- Carlens catheter: see Carlens Catheter
- cart
  - for continuous spinal mattress (c.c.), 9: 313
  - with restraint strap (c.c.), 10: 639
- catheter: see also endotracheal; epidural
  - extra length for tracheobronchial aspiration (c.c.), 15: 208
  - stop (c.c.), 12: 664
- chamber for anesthetization of small animals (c.c.), 20: 707
- caudal anesthesia, a new needle for (c.c.), 12: 397
- chest
  - guard (c.c.), 19: 289
  - respirator for bronchoscopy and laryngoscopy (c.c.), 18: 135
- circle
  - absorbers design (abs.), 19: 99
  - adaptation of Jefferson ventilator for use with (c.c.), 18: 649
  - Foregger filter (CF-1) for a nonbreathing technique, simple adaptation (c.c.), 16: 1035
- collapsible bag, chemical sterilization of instruments in (c.c.), 18: 132

- combination resuscitator and aspirator (c.c.), 19: 408
- combined electroencephalogram and electrocardiogram with remote direct-writing recorder (c.c.), 17: 376
- combustible gas indicator (c.c.), 7: 203
- conductive
  - heel application (c.c.), 20: 219
  - operating shoes (c.c.), 18: 907
  - shoe strips (c.c.), 17: 363
- Copper Kettle
  - "copper kettle" (corr.), 18: 509
  - Copper Kettle (c.c.), 19: 559
  - adaption of "copper kettle" vaporizer (c.c.), 18: 508; (corr.), 18: 509
  - vaporization of halothane and ether (Feldman & Morris), 19: 650
- dermalor, rectal element for (c.c.), 12: 122
- ear oximeter as circulatory monitor (Schotz & others), 19: 386
- Eaton headrest (c.c.), 11: 131
- electric current resuscitator (c.c.), 20: 113
- electric shock apparatus for ventricular defibrillation (c.c.), 14: 207
- electronic pulse detector (c.c.), 16: 645
- electrophrenic respirator (c.c.), 12: 123
- electroshock devices, new approach to use in combating ventricular fibrillation (Schotz & Birkmire), 16: 441
- emergency cart (c.c.), 5: 195
- endobronchial
  - airway, improved (Ruth & others), 9: 422
  - connector for (c.c.), 15: 106
  - lamps (c.c.), 17: 362
  - simple connector for double lumen tracheobronchial catheters (c.c.), 17: 209
- endo-oesophageal stethoscope (c.c.), 15: 566
- endotracheal
  - adapter, stabilizing (c.c.), 16: 285
  - catheter
    - brush for cleaning (c.c.), 17: 750
    - Carlen-Stille double lumen, resistance study with 15: 209
    - clamp and bite block (c.c.), 14: 204
    - combined endotracheal-bronchogram (c.c.), 20: 116
    - cuffed with an incorporated endobronchial blocker (c.c.), 16: 468
    - double lumen tracheobronchial, simple connector for (c.c.), 17: 209
    - forceps for (c.c.), 12: 514
    - for infants (Cole tube) (c.c.), 6: 87, 6: 627
    - length of (c.c.), 7: 443
    - marking of (c.c.), 10: 112
    - marking of (corr.), 7: 678
    - modification of (Dwyer & others), 10: 714
    - modified for bronchography (c.c.), 18: 336
    - optimal size of based on blood gas studies (Beecher), 11: 730
    - for pediatric use (Adriani & Griggs), 15: 466
    - reaction to improperly cleaned endotracheal catheter (c.c.), 18: 505
  - scientific aspects (Macon & Bruner), 11: 313
  - vinyl plastic, experience with (Gordon & Ainslie), 6: 359
- connector
  - pediatric (c.c.), 16: 1034
  - improved (c.c.), 16: 287
- cuffs
  - cuffs (c.c.), 5: 526
  - device for mounting (c.c.), 19: 559
  - an easy method of applying (c.c.), 5: 526
  - fabrication of (Whitehouse & others), 11: 120
- forceps for insertion of endotracheal tubes into (c.c.), 8: 89
- infant (c.c.), 17: 363
- inflating valve (c.c.), 17: 367
- instrument for inserting (c.c.), 10: 363
- manufacture of (c.c.), 8: 643
- instruments, new (Sanders), 8: 57
- stilet
  - stilet (c.c.), 12: 667
  - stilet (c.c.), 9: 553
  - stiles (c.c.), 18: 341
  - lighted (c.c.), 20: 381
- vaporizer (c.c.), 6: 418
- epidural catheter (c.c.), 20: 893
- ether
  - dripper (c.c.), 3: 214
  - insufflation (c.c.), 4: 311
  - a method of administration of vapor (c.c.), 7: 321
  - a method of administration by continuous insufflation (c.c.), 7: 206
  - a simplified dripper for open drop (c.c.), 7: 83
  - vaporizer (c.c.), 2: 695
- face masks: see under masks
- fluid carrier (c.c.), 10: 763
- funnel, for opening cans and pouring ether (c.c.), 4: 545
- gas
  - analysis by thermal conductivity (c.c.), 20: 884
- analyzer
  - for carbon dioxide and nitrous oxide (Loomis & Beyer), 12: 173
  - infrared (c.c.), 10: 766
  - for rapid estimation of cyclopropane (Linde & Price), 19: 757
- cylinder
  - device to prevent interchange (c.c.), 5: 526
  - hazard (corr.), 10: 364
  - improved washer for (c.c.), 17: 829
  - tight method for gastric drainage tube in circle circuit (c.c.), 17: 204
- Gibbon-type pump-oxygenator, anesthesia and supportive care during intracardiac surgery with (Patrick & others), 18: 673
- grounding methods, practical (c.c.), 17: 621
- head
  - and arm support for the lateral position (c.c.), 6: 420
  - device for support during tonsillectomy and adenoidectomy (c.c.), 16: 146

- headlight (c.c.), 20: 889
- hypothermia, inflatable plastic tub for (c.c.), 19: 287
- infrared gas analyzer (c.c.), 10: 766
- inflatable "rest" (c.c.), 20: 711
- infusion pump (corr.), 16: 652
- inhalation anesthetic systems, denitrogenation with (Hamilton & Eastwood), 16: 861
- inhaler tube support (c.c.), 18: 135
- inhalers for trichloroethylene, chloroform and Fluothane (abs.), 19: 109; (Ngai & others), 19: 488
- intubation, blind nasal, device for (c.c.), 20: 221
- insufflator (c.c.), 14: 206
- intravenous anesthesia
  - apparatus for (c.c.), 4: 642
  - apparatus for administering (Adams), 6: 191
  - a method of administration (Mann), 6: 279
  - barbiturates, kit for (c.c.), 5: 89
  - manifold to facilitate intravenous injection (c.c.), 18: 646
  - needle for (Gordh), 6: 258
  - infusion (c.c.), 18: 501
  - sets (c.c.), 19: 801
- introducer for malleable needle (c.c.), 3: 457, 458
- laryngeal spray (c.c.), 18: 790
- laryngoscope
  - blade
    - for lateral intubation (c.c.), 20: 380
    - curved (c.c.), 3: 580
    - Guedel, modified (c.c.), 13: 225
    - modified (c.c.), 11: 750
  - dual-vision laryngoscopy, attachment for (c.c.), 16: 284
  - handle for (c.c.), 12: 770
  - indirect (c.c.), 17: 619
  - infant (c.c.), 17: 364
  - infant (c.c.), 7: 205
  - Miller, modified (c.c.), 16: 812
  - mirror (Siker), 17: 38
  - new (Miller), 2: 317
  - new (Lloyd), 11: 206
  - a new modification of and a technic for laryngoscopy (Wiggin), 5: 61
  - non-reflecting surface (c.c.), 12: 516
  - sterilization (c.c.), 8: 203
  - suspension attachment for (c.c.), 12: 658
  - washer for (c.c.), 18: 649
- lateral position mattress (c.c.), 20: 888
- masks
  - adapter, universal (c.c.), 10: 233
  - antisepsis of, and endotracheal tubes (McDonald & others), 16: 206
  - with stomach tube (c.c.), 3: 460
- mattress for lateral decubitus (c.c.), 10: 758
- monitor system, simple constant (c.c.), 16: 466
- monitoring
  - amplification of heart sounds (c.c.), 18: 790
  - heart (corr.), 18: 343
  - instrumentation and anesthesia (edit.), 19: 676
  - physiological (c.c.), 17: 369
  - telecor, esophageal probe device (c.c.), 18: 145
  - visual and auditory, of heart beat (c.c.), 17: 748
- mouth
  - gag, description of Whitman (c.c.), 15: 215
  - to-mouth airway (c.c.), 18: 904
  - prop (c.c.), 3: 94
- nasopharyngeal airway (c.c.), 15: 325
  - substitute airway (c.c.), 11: 379
  - nitrous oxide anesthesia (c.c.), 13: 552
- nebulizer for liquid anesthetics (c.c.), 18: 131
- needle: see also spinal; epidural; intravenous
  - adaptors for ECG monitoring machines (c.c.), 19: 806
  - plastic (c.c.), 12: 772
  - storage rack for nerve block clinic (c.c.), 16: 1028
- nonrebreathing
  - device whereby circle rebreathing system may be interchanged with (c.c.), 14: 413
  - mask (c.c.), 13: 226
  - system (c.c.), 20: 886
- valve
  - valve (c.c.), 9: 550
  - valve (c.c.), 17: 618
  - valve (c.c.), 20: 383
  - valve, modified (c.c.), 17: 749
  - of new design (Fink), 15: 471
  - new (c.c.), 16: 643
  - piston-type (c.c.), 16: 1037
- operating table screen (c.c.), 20: 381
- "operiscope" as an aid during anesthesia (c.c.), 11: 506
- oropharyngeal airway with amplifying chamber (c.c.), 18: 133
- overhead boom for gas piping systems (c.c.), 14: 413
- Oxford vaporizer for physiologic experiments (Foster & others), 6: 181
- oxygen: see also Oxygen therapy
  - administration
    - apparatus for (Bortin), 4: 48
    - a new device for (c.c.), 11: 504
  - analyzer (c.c.), 7: 82
  - Beckman analyzer (Faulconer and Ridley), 11: 265
  - oxygen (Cole), 12: 185
  - mask apparatus, physiologically controlled (Barach & Eckman), 2: 421
  - nostril insert for administration of (Penefsky & Karp), 13: 390
  - tent, inexpensive (c.c.), 8: 642
- pad
  - foam rubber, horseshoe, for prone positions (c.c.), 16: 1039
  - for patients in prone position (c.c.), 16: 465
- patch for infusion tubing (c.c.), 18: 648
- pediatric: see also specific equipment, e.g., endotracheal catheters; Infants; Children
  - circle absorber (c.c.), 18: 787
  - ether screen (c.c.), 18: 647



- pillow for anesthesia (c.c.), 19: 681  
 plastic, airway (corr.), 11: 136  
 plethysmograph digital, a clinical guide to the peripheral circulation during anesthesia, shock, and hemorrhage (Foster & others), 6: 246  
 pneumograph, calibrated (c.c.), 20: 216  
 pneumotachograph, infant (abs.), 18: 168  
 portable anesthesia (c.c.), 18: 789  
 pressormeter (c.c.), 17: 373  
 protector for needles and syringes (c.c.), 6: 199  
 pump-oxygenator for open cardiac surgery (Mendelsohn & others), 18: 223  
 rebreathing, in pediatric anesthesia, recommendations and improvements (Adriani & Griggs), 14: 337  
 record holder for left handed anesthesiologist (c.c.), 15: 213  
 regional anesthesia, mobile equipment for (c.c.), 16: 288; (corr.), 651  
 remote control valve for aspirator (current comment), 20: 115  
 respirator  
     mechanical  
         respirators (Adelman & others), 10: 673  
         for the prevention of hypoventilation and mediastinal motion during intrathoracic surgery (Maloney & others), 13: 23  
     physiological  
         evaluation of respiratory assistants (abs.), 18: 177  
         producing nitrous oxide amnesia-analgesia (Frumin), 18: 290  
         pneumatic balance (c.c.), 13: 113  
 respiratory valves and canisters (resistance in) (Hunt), 16: 190  
 resuscitation, bellows for (Kreiselman), 4: 608  
 resuscitator, infant, home-made (c.c.), 13: 438  
 rotameter in anesthesia (Foregger), 7: 549  
 rubber catheter hook for ether insufflation (c.c.), 16: 648  
 Sanders elbow (c.c.), 17: 364  
 screens, home-made (c.c.), 10: 759  
 semiclosed  
     anesthesia systems, concentration of inhaled gases (Ruben), 14: 459  
     inhalers  
         inhalers, elimination of nitrogen using (Miles & others), 17: 213  
         inhalers: studies of oxygen and carbon dioxide tensions (Swartz & others), 14: 437  
 shoes  
     conductivity tester (c.c.), 12: 506  
     inexpensive and comfortable conductive (c.c.), 18: 337  
     operating room, grounding of (c.c.), 15: 215  
     soda lime dispenser (c.c.), 20: 709  
     "space helmet" for induction of pediatric anesthesia (c.c.), 16: 290  
 spinal  
     anesthesia, motor driven, continuous (De Ciutiis and Fierro), 12: 708  
     catheters, sterilization of (c.c.), 11: 258  
 continuous  
     metal protector (c.c.), 4: 645  
     shield for continuous spinal needle (c.c.), 12: 256  
     indicator for spinal epidural analgesia (c.c.), 17: 210  
 needle  
     directional (c.c.), 5: 413  
     introducer  
         modified for 26 gauge spinal needle (c.c.), 16: 470  
         Moore, modified (c.c.), 9: 549  
     new (Haraldson), 12: 321  
     small bore, use of, technique to minimize occurrence of headache after lumbar puncture (Wetchler & Brace), 16: 270  
     Tuohy  
         modified (c.c.), 20: 712  
         modification of, for continuous (c.c.), 12: 515  
         twenty-six gauge (Greene), 11: 464  
 standardization  
     of equipment (edit.), 14: 408  
     of anesthetic equipment, a plea for (c.c.), 17: 503  
 Statometer, in detection of static (Uhl & others), 10: 479  
 sterile anesthesia equipment, maintenance of (c.c.), 15: 566  
 storage rack (needle) for nerve block clinic (c.c.), 16: 1028  
 suction catheter (c.c.), 7: 445  
 syringe  
     adapter for cuffs (c.c.), 17: 620  
     holder (c.c.), 4: 547  
     holder (c.c.), 10: 642  
     holder (c.c.), 17: 362  
     super (c.c.), 20: 709  
     table for thoracic surgery (Murphy and Sword), 9: 58  
 three-way stopcock (c.c.), 19: 680  
 to-and-fro  
     Foregger assembly, adapter for (c.c.), 14: 97  
     open system for children (c.c.), 6: 535  
 topical device for transoral (c.c.), 18: 507  
 tracheal sucker (c.c.), 19: 290  
 tracheostomy  
     adapter  
         adapter (c.c.), 9: 441  
         acrylic (c.c.), 9  
         for connecting tracheostomy tubes (c.c.), 19: 803  
     intratracheal inhaler to tracheotomy tubes, method of adapting, and a technic for its use with endotracheal tubes (c.c.), 14: 615  
     modification of tube (c.c.), 19: 406  
     tube connectors (c.c.), 17: 366  
     T-tube slip joint adapter for tubes (c.c.), 14: 620  
 trichlorethylene inhaler (c.c.), 13: 646  
 vapor-proof lamp (c.c.), 10: 362  
 vaporizer, see also ether, vaporizers; Copper Kettle  
     Fluotec performance (c.c.), 19: 681

- improved, for intrathoracic operations under emergency circumstances (Neff & Lind), 6: 337
- for liquid anesthetics (Morris), 13: 587
- Vapotester (Uhl & others), 10: 479
- valve, inexpensive "homemade," for rebreathing technique for pediatric anesthesia (c.c.), 15: 107
- ventilating bronchoscope (c.c.), 19: 406
- ventilator (c.c.), 17: 504
- volume
- displacement ventilator, ventilation and circulation during surgery (abs.), 19: 100
  - ventilation valve (c.c.), 20: 885
- "Y" adapter for open system intubation anesthesia (c.c.), 14: 618
- AQUILAR, F. N., see COAKLEY, C. S., jt. auth.
- AQUINO, T. D., see WIDDOWSON, H. R., jt. auth.
- Aramine (Metaraminol)
- use, as pressor agent during spinal anesthesia (Poe), 15: 547
- ARFEL, G., see DAVENPORT, H. T., jt. auth.
- ARCURI, R., NEWMAN, W., and BURSTEIN, C. L., Electrocardiographic studies during endotracheal intubation. V. Effects during general anesthesia and hexylcaine hydrochloride topical spray, 14: 46
- Arfonad
- controlled hypotension with
    - clinical report (Clark & others), 16: 434
    - comparison with pendiomid on renal hemodynamics and electrolyte excretion, and effect of norepinephrine (Moyer & others), 16: 355  - effect of, on anesthetic requirements during cyclopropane anesthesia (Bellville & Artusio), 17: 347
  - induced hypotension and constant volume ventilation, respiratory studies with (abstract), 19: 106
  - use, intravenous, for production of flexible and rapidly reversible hypotension during surgery (Nicholson & others), 14: 215
  - urinary excretion by patients undergoing "controlled hypotension" during surgery (Gertner & others), 16: 495
- Arm
- upper, regional block of great nerves of (c.c.), 19: 281
- ARNEY, G. K., see McCUNE, F. K., jt. auth.
- ARNOLD, G. T., and TOVELL, R. M., The production of fog as a therapeutic agent, 17: 400
- ARNOLD, L., and SCHAPIRO, M. M., Influence of general anesthetic agents upon the bacterial flora of the upper respiratory tract, 2: 80
- Arrhythmias: see also Ventricular Fibrillation, specific drugs, *e.g.*, cyclopropane, epinephrine, etc.
- during cyclopropane
    - influence of the autonomic nervous system on (Allen & others), 6: 261
    - a sympathomimetic effect of cocaine in (Evangelou & Adriani), 16: 1017  - effect of vagal stimulation and hypoxia (Jacoby & others), 16: 1004
  - following inhalation of carbon dioxide, role of diffusion anoxia in production of (abs.), 18: 158
  - produced by mechanical stimulation during hypothermia (abs.), 19: 113
  - rhythm and endotracheal intubation (Denson & Joseph), 15: 650
  - treatment with procaine (Burstein), 7: 113
  - ventricular, epinephrine and norepinephrine in initiation of, during cyclopropane anesthesia (Price & others), 19: 619
- ARROWOOD, J. G., Mytolon chloride: a new agent for producing muscular relaxation. Preliminary report, 12: 753
- ARROWOOD, J. G., and FOLDES, F. F., A continuous drop method for subarachnoid analgesia: preliminary report, 5: 465
- ARROWOOD, J. G. and SARNOFF, S. J., Differential spinal block. V. Use in the investigation of pain following amputation, 9: 614
- ARROWOOD, J. G., see CAVALLITO, C. J., jt. auth.
- ARROWOOD, J. G., see ELLIOT, H. L., jt. auth.
- ARROWOOD, J. G., see KAPLIN, M. S., jt. auth.
- ARROWOOD, J. G., see THOMPSON, J. E., jt. auth.
- Arterenal, see norepinephrine
- Arterial bleeding, controlled (Hale), 9: 498
- Arteriogram, vocal cord paralysis following (case report), 12: 511
- Arthralgia, treatment, intravenous procaine (Graubard & Peterson), 10: 175
- Arthritis, treatment, intravenous procaine (Graubard & Peterson), 10: 175
- Artificial Respiration: see Respiration, artificial
- ARTUSIO, J. F., and TROUSDELL, M., A comparative study of rectal Pentothal and morphine for basal anesthesia upon children for tonsillectomy, 11: 443
- ARTUSIO, J. F., see BELLVILLE, J. W., jt. auth.
- ARTUSIO, J. F., see EBERSOLE, C. M., jt. auth.
- ARTUSIO, J. F., see ESPINOSA, A. M., jt. auth.
- ARTUSIO, J. F., see TOVELL, R. M., jt. auth.
- ASH, W. H., The lateral approach for spinal anesthesia, 16: 445
- Asphyxia
- effect of premedication on, during nitrous oxide (Allen & others), 10: 164
  - neonatorum, the syndrome, its prevention and treatment (Little & others), 13: 518
- Aspiration
- foreign body during anesthesia (c.c.), 15: 213
  - prevention of, stomach contents (c.c.), 14: 506
  - silent, and regurgitation during anesthesia (Benson & Adriani), 15: 644
  - tracheobronchial, extra length catheter for (c.c.), 15: 208
- Asthma, effect on choice of anesthetic (Mousel), 11: 495
- ÅSTRÖM, A., see GORDH, T., jt. auth.
- Atelectasis
- atelectasis (Brace), 3: 131
  - clinical aspects of (with a case report of a death under anesthesia) (Schutz), 4: 293; (corr.), 4: 437

- during anesthesia (Cassels & Rapoport), 5: 174  
 during operation on the upper urinary tract (Faulconer & others), 7: 635  
 massive (Peterson & Pallin), 3: 79  
 postoperative (case report), 4: 308  
 prevention of following abdominal operations (Greene & Berkowitz), 14: 166  
 relation of negative pressure to (Hilding), 5: 225
- Atropine**  
 combined effect of thiopental-Flaxedil, intubation and atropine on dead space (abs.), 18: 157  
 compared to scopolamine (West & Papper), 11: 279  
 effect  
   on action of mechoyl induced bronchospasm (Cohen & others), 10: 458  
   on atelectasis (Pallin and Goldman), 10: 325  
   on bronchi and bronchioles of isolated lung tissue (Adriani & Roventine), 4: 258  
   of, on man (Orkin & others), 17: 30  
   in morphine apnea (Burstein), 2: 530  
   of morphine, atropine and scopolamine on humans (Wangeman & Hawk), 3: 24  
   of, and scopolamine on subsequent injection of epinephrine in thyrotoxic and euthyroid patients (Sarnoff & Cope), 15: 484  
   on signs of asphyxia, during nitrous oxide (Allen & others), 10: 164  
 intravenous administration of, electrocardiographic effect of, and neostigmine, during cyclopropane anesthesia (Jacobson & Adelman), 15: 407  
 methantheline bromide (Banthine) as substitute for, in pediatric and oral surgery (corr.), 16: 653  
   poisoning (case report), 7: 566
- Aturbane:** see Phenglutarimid
- AUMANN, K. W.,** see YOUNG, W. B., jt. auth.
- AUSHERMAN, H. M.,** Group practice in anesthesia, 11: 41
- Autoclave**  
 adrenalin (c.c.), 17: 366; (corr.), 633; (corr.), 752  
 multiple, of drugs used in spinal anesthesia (Carter & others), 15: 480
- Avertin:** see Tribromethanol
- AVIADO, D. M.,** Cardiovascular effects of some commonly used pressor amines (review), 20: 71
- Azotemia** effect of upon action of intravenous barbiturates (Dundee & Richards), 15: 333
- BAART, N.,** see FOLDES, F. F., jt. auth.
- BACHMAN, L.,** The antidiuretic effects of anesthetic agents, 16: 939
- BACHMAN, L.,** see SAFAR, P., jt. auth.
- BACHMAN, L.,** see SMITH, R. M., jt. auth.
- Back,** unflexed, and low incidence of severe spinal headache (Rosser & Schneider), 17: 288
- BACKUP, P. H.,** see BONICA, J. J., jt. auth.
- Bacterial flora** of the respiratory tract, effect of anesthetics (Schapiro & Arnold), 2: 80
- BAEKELAND, F.,** and **GREENE, N. M.,** Effect of diethyl ether on tissue distribution and metabolism of pentobarbital in rats, 19: 724
- BAEZ, A.,** see ROVENTINE, E. A., jt. auth.
- BAEZ, S.,** see ROVENTINE, E. A., jt. auth.
- BAGEANT, W. E.,** and **RAPEE, L. A.,** Treatment of pulmonary embolus by stellate block, 8: 500
- BAILEY, P. J.,** and **MURPHY, F. J.,** Syncurine in endotracheal intubation, 12: 63
- BAILEY, P. J.,** see GARLINGTON, L. N., jt. auth.
- BAIRD, J. W.,** Geriatrics and anesthesia, 4: 17
- BAIRD, J. W.,** Pentothal-curare mixture, 8: 75
- BAIRD, J. W.,** **JOHNSON, W. R.,** and **VAN BERGEN, F. H.,** Pentothal-curare solution: A preliminary report and analysis of its use in 160 cases, 9: 141
- BAKAMJIAN, V.,** see BROWN, E. S., jt. auth.
- BAKER, A. B.,** see COHEN, H. P., jt. auth.
- BALAGOT, R. C.,** see SADOVE, M. S., jt. auth.
- BALDES, E. J.,** see JONES, C. S., jt. auth., 11
- BALDWIN, M.,** see HALL, K., jt. auth.
- BALLINGER, C. M.,** see GERLICH, N. A., jt. auth.
- Ballistocardiograph:** see under Heart
- BALOVICH, V.,** see HOWARD, J. P., jt. auth.
- Baltimore Anesthesia Study Committee** organization and preliminary reports (Phillips & Frazier), 18: 33
- Banthine:** see Methantheline Bromide
- BARACH, A. L.,** and **ECKMAN, M.,** Physiologically controlled oxygen mask apparatus, 2: 421
- BARACH, A. L.,** and **ROVENTINE, E. A.,** The hazard of anoxia during nitrous oxide anesthesia, 6: 449
- Baralyme,** preliminary report (Kilborn), 2: 621
- Barbiturates:** see also specific compounds  
   analgesic effects of (Hart & Weaver), 9: 276  
   analysis of blood for certain barbiturates and the variability of their concentration in the blood (Anderson & Essex), 4: 113  
   anesthesia, respiratory effects of oxygen deficiency and carbon dioxide excess during (Gordh & Aström), 16: 245  
   antagonist—Ritalin (abs.), 19: 101  
   compatibility with neuromuscular blocking agents (c.c.), 14: 92  
   cross tolerance of (Carmichael), 9: 532  
   cross tolerance to (Green & Koppányi), 5: 329  
   with Demerol, dangers during labor (Brown & others), 10: 15  
   depression in anesthetized man, comparative effects of levallorphan tartrate on respiratory responses to carbon dioxide during (Landmesser & others), 16: 520  
   depression of heart of dog, cardiovascular-stimulant drugs in (Boniface & Brown), 14: 23  
   determination of (Strayer), 11: 599  
   duration of anesthesia with, influence of the liver and the kidney (Masson & Beland), 6: 483  
   effect on  
     blood sugar (Johnson), 10: 379  
     bronchi (Adriani & Roventine), 4: 253

- cardiac vagus nerve (Halbeisen & others), 10: 585
- heart muscle (Halbeisen & others), 10: 585
- liver (Hugill), 11: 567
- pain (Beecher), 12: 636
- procaine toxicity (Isenberger), 10: 343
- respiratory minute volume (Bennett & others), 10: 548
- signs of asphyxia (Allen & others), 10: 164
- ethinyl, (Dormison) pharmacologic study (O'Malley), 17: 585
- factors influencing distribution, metabolism and action of (Richard & Taylor), 17: 414
- failure to prevent cyclopropane-epinephrine tachycardia (Orth & others), 2: 628
- hypnotic actions of (Hart & Weaver), 9: 276
- intravenous
- bronchomotor effects on vagal stimulation in dogs (Bernstine & others), 18: 866
  - effect of azotemia upon action of (Dundee & Richards), 15: 333
  - potency (abs.), 19: 110
- obstetrics, use in (Hershenson), 9: 73
- poisoning
- the role of picrotoxin in the treatment (Richards & Menaker), 3: 37
  - studies on analeptic action of electrical stimulation in (Blachly & Brookhart), 16: 151
  - severe barbiturate-morphine (case report), 14: 97
- preliminary report of five new intravenous (Stoelting & Graf), 15: 61
- premedication with vinbarbital sodium (Lorhan), 5: 370
- secobarbital, evaluation of intravenously administered (Virtue & Gootee), 12: 642
- spinal anesthetic effects (Morrison & others), 12: 315
- synergism with morphine (Salter & White), 10: 553
- ultrashort acting
- cardiovascular responses to (Greisheimer & others), 17: 385
  - with decamethonium for endotracheal intubation (Volpitto), 12: 648
- BARBOUR, C. M., Polycythemia in relation to anesthesia and surgery, 11: 155
- BARBOUR, C. M., Preoperative evaluation (edit.), 19: 275
- BARBOUR, C. M., and TOVELL, R. M., Experiences with procaine administered intravenously, 9: 514
- BARBOUR, C. M., see LITTLE, D. M., jt. auth.
- BARBOUR, H. G., Water exchanges due to anesthetic drugs, 1: 121
- BARENDRICK, E. H., see BISHOP, H. F., jt. auth.
- BARILA, T. G., see RILEY, P. A., jt. auth.
- Barium hydroxide, efficiency of, in the absorption of carbon dioxide (Adriani & Batten), 3: 1
- BARTON, G. D., WICKS, W. R., and LIVINGSTON, H. M., Effect of Pentothal alone and in combination with oxygen or nitrous oxide-oxygen on arterial blood gases, 7: 505
- BASS, W. P., WATTS, D. T., and CHASE, H. F., Ether hyperglycemia as influenced by premedication and Pentothal induction, 14: 18
- BASSETT, D. L., see BEECHER, H. K., jt. auth.
- BASTRESS, E. K., see LAWRENCE, J. S., jt. auth.
- BATES, W., and JUDOVICH, B. D., Intractable pain, 3: 663
- BATES, W., see JUDOVICH, B. D., jt. auth.
- BATTEN, C. T., and COURVILLE, C. B., Mental disturbances following nitrous oxide anesthesia, 1: 261
- BATTEN, D. H., see ADRIANI, J., jt. auth.
- BATTERMAN, R. C., and OSHLAG, A. M., The effectiveness and toxicity of methadon, a new analgesic agent, 10: 214
- BATTERMAN, R. C., see MARTIN, S. J., jt. auth.
- BATTERMAN, R. C., see ROVENSTINE, E. A., jt. auth.
- BAUMGARTEN, O., and BETCHER, A. M., The use of the nonbreathing method of anesthesia, 15: 188
- BAXTER, C. R., see MCCLUNE, F. K., jt. auth.
- BAY, E., see COTTEN, M. DEV., jt. auth.
- BEACONSFIELD, P., and MESSENT, D., Blood flow after general anaesthesia in sympathectomized limbs, 16: 428
- BEANS, R. B., Recent advances in transfusion therapy, 3: 331
- BECKER, R. F., see TABARI, K., jt. auth.
- BECKER, T. J., see CASSELS, W. H., jt. auth.
- BECKERT, F. E., see HARROUN, P., jt. auth.
- BEECHER, H. K., First anesthesia death with some remarks suggested by it on the fields of the laboratory and the clinic in the appraisal of new anesthetic agents, 2: 443
- BEECHER, H. K., On misunderstanding the opportunities in anesthesia (edit.), 18: 498
- BEECHER, H. K., A note on the optimal size of endotracheal tubes based upon studies of blood gases, 11: 730
- BEECHER, H. K., Pain and factors that modify it, 12: 633
- BEECHER, H. K., Resuscitation and anesthesia, 7: 644
- BEECHER, H. K., BENNETT, H. S., and BASSETT, D. L., Circulatory effects of increased pressure in the airway, 4: 612
- BEECHER, H. K., see KEATS, A. S., jt. auth.
- BEHNKE, A. R., Certain physiological principles underlying resuscitation and oxygen therapy, 2: 245
- BELAND, E., see MASSON, G. MC., jt. auth.
- BELDA, F. B., see MOORE, D. C., jt. auth.
- BELINKOFF, S., Choice of anesthesia in cardiac disease, 7: 268
- BELINKOFF, S., Intercostal block with long-acting anesthetic in upper abdominal operations, 5: 500
- BELL, F. K., see CARR, C. J., jt. auth.
- BELL, J. K. S., see GREENE, N. M., jt. auth.
- BELLET, S., Preoperative preparation of the patient with coronary artery disease, 17: 391
- BELLVILLE, J. W., and ARTUSIO, J. F., Effect of Arfonad on anesthetic requirements during cyclopropane anesthesia, 17: 347

- H. F., *Electroencephalographic frequency spectrum analysis during ether and cyclopropane anesthesia*, 17: 653
- BELLVILLE, J. W., and ARTUSIO, J. F., *Electroencephalographic pattern and frequency spectrum analysis during diethyl ether analgesia*, 16: 379
- BELLVILLE, J. W., BROSS, I. D. J., and HOWLAND, W. S., *The antiemetic efficacy of cyclizine (Marezine) and triflupromazine (Vesprin)*, 20: 761
- BELLVILLE, J. W., BROSS, I. D. J., and HOWLAND, W. S., *A method for the clinical evaluation of antiemetic agents*, 20: 753
- BELLVILLE, J. W., and HOWLAND, W. S., *Prognosis after severe hypoxia in man*, 18: 389
- BELLVILLE, J. W., HOWLAND, W. S., SEED, J. C., and HOUDE, R. W., *The effect of sleep on the respiratory response to carbon dioxide*, 20: 628
- BELLVILLE, J. W., SCHWEIZER, O., and HOWLAND, W. S., *Anesthesia for bilateral adrenalectomy: a statistical and clinical analysis*, 19: 217
- BELLVILLE, J. W., WALLENSTEIN, S. L., WALD, G. H., DOWLING, M. D., and HOUDE, R. W., *Effect of noscapine and codeine on the respiratory response to carbon dioxide*, 19: 545
- BELLVILLE, J. W., ULANG, K. C., WALLENSTEIN, S. L., and HOWLAND, W. S., *The effects of caffeine, codeine, morphine and combinations of caffeine and narcotics on the respiratory center (abs.)*, 19: 95
- BELLVILLE, J. W., see BOYAN, C. P., *jt. auth.*
- BELTON, M. K., see LEIGH, M. D., *jt. auth.*
- BENDIXEN, H. H., SURTEES, A. D., OYAMA, T., and BUNKER, J. P., *Postoperative disturbances in ventilation following the use of muscle relaxants in anesthesia*, 20: 121
- BENDIXEN, H. H., see BUNKER, J. P., *jt. auth.*
- Benedryl, *effect as bronchodilator under anesthesia (Cohen & others)*, 10: 451
- BENNETT, B., see BONICA, J. J., *jt. auth.*
- BENNETT, H. A., GRAY, C. E., and CULLEN, S. C., *The effects of large doses of barbiturates and morphine and scopolamine on respiratory minute volume exchange*, 10: 548
- BENNETT, H. S., see BEECHER, H. K., *jt. auth.*
- BENNETT, J. H., *Anesthetic management for drainage of abscess of the submandibular space (Ludwig's angina)*, 4: 25
- BENNETT, L. L., see FISHER, C. W., *jt. auth.*
- BENNETT, W. D., see CLARK, S. S., *jt. auth.*
- BENTON, C. C., see VOLPITTO, P. P., *jt. auth.*
- Benzimidazole, *comments on, illustrating method of approach to introduction of new drugs (edit.)*, 16: 142
- Benzomorphan: *see under Phenazocine*
- BERARD, W., see LEMEVE, F., *jt. auth.*
- BERENS, J. J., *Immediate reactions to spinal anesthesia*, 11: 350
- BERGMAN, N. A., *The legacy of John Snow. An appreciation of his life and scientific contribution on the 100th anniversary of his death*, 19: 595
- BERGMAN, N. A., RACKOW, H., and FRUMIN, M. J., *The collision broadening effect of nitrous oxide upon infrared analysis of carbon dioxide during anesthesia*, 19: 19
- BERGMAN, N. A., see FURMIN, M. J., *jt. auth.*
- BERGMAN, P. S., see ORKIN, L. R., *jt. auth.*
- BERGNER, R. P., *Cardiac arrest: some etiological considerations, with reports of seventeen cases*, 16: 177
- BERGNER, R. P., HERD, R. M., KLINE, K., LAWRENCE, D., and HUTTON, C. E., *Nitrous oxide, oxygen, and trichloroethylene for office dental anesthesia*, 15: 696
- BERGNER, R. P., ROSEMAN, E., JOHNSON, H., and SMITH, H. R., *Severe neurologic complications following spinal anesthesia: report of six cases*, 12: 717
- BERGNER, R. P., see WEAKLEY, L. S., *jt. auth.*
- BERKER, E., see BERNSTINE, M. L., *jt. auth.*
- BERKOWITZ, S., and GREENE, B. A., *Spinal anesthesia in children: report based on 350 patients under 13 years of age*, 12: 376
- BERKOWITZ, S., see GREENE, B. A., *jt. auth.*
- BERMAN, R. A., see ADELMAN, M. H., *jt. auth.*
- BERNSTEIN, E., see PAPPER, E. M., *jt. auth.*
- BERNSTEIN, M. L., BERKER, E., and CULLEN, M., *The bronchomotor effects of certain intravenous barbiturates on vagal stimulation in dogs*, 18: 866
- BERQUIST, H. C., see HAUGEN, F. P., *jt. auth.*
- BERSON, W., and ADRIANI, J., *"Silent" regurgitation and aspiration during anesthesia*, 15: 644
- BETANCOURT, R. R., see MILOWSKY, J. L., *jt. auth.*
- BETCHER, A. M., *A ride through central park (edit.)*, 18: 785
- BETCHER, A. M., and CASTEN, D. F., *Reflex sympathetic dystrophy: criteria for diagnosis and treatment*, 16: 994
- BETCHER, A. M., CILIBERTI, B. J., WOOD, P. M., and WRIGHT, L. H., *The jubilee year in organized anesthesia*, 17: 226
- BETCHER, A. M., and TANG, Z. T., *Pyribenzamine: evaluation of effectiveness as an analgesic agent in regional anesthesia*, 16: 214
- BETCHER, A. M., see BAUMGARTEN, O., *jt. auth.*
- BETHEA, R. C., see ANDROS, G. J., *jt. auth.*
- BETLACH, C. J., *Intravenous use of dihydromorphine hydrochloride (Dilaudid) for analgesia*, 2: 170
- BEUCHEL, D. R., see GOLD, M. I., *jt. auth.*
- BEUTNER, R., *Essential characteristics of local anesthetics*, 3: 673
- BEUTNER, R., see DIETRICH, W. C., *jt. auth.*
- BEYER, R. E., see LOOMIS, T. A., *jt. auth.*
- BICKERS, D. S., see RUMBLE, L., *jt. auth.*
- BICKFORD, R. G., see FAULCONER, A., *jt. auth.*
- BICKFORD, R. G., see KIERSEY, D. K., *jt. auth.*
- BICKFORD, R. G., see MARTIN, J. T., *jt. auth.*
- BICKFORD, R. G., see PITTINGER, C. B., *jt. auth.*
- BICKFORD, R. G., see SOLTERO, D. E., *jt. auth.*



- Biliary tract, spasm, morphine and nalorphine (c.c.), 20: 713
- BINDER, L. S., see ELDER, J. H., jt. auth.
- BINGER, G. G., and DEVNICH, G., Treatment of two cases of tetanus with d-tubocurarine chloride in peanut oil with myricin, 11: 199
- BINGER, G. G., see FENDER, F. A., jt. auth.
- Biometrics and statistics in anesthesia (edit.), 20: 881
- Biometry, in *anesthesiology* (Ting), 13: 1
- BIRKMIER, E. L., see SCHOTZ, S., jt. auth.
- BISHOP, H. F., Operating room deaths, 7: 651
- BISHOP, H. F., CILIBERT, B. J., and BARENDRICK, E. H., Venous pressure during surgical anesthesia. A preliminary report, 13: 297
- BISHOP, H. F., see BURSTEIN, C. L., jt. auth.
- BISHOP, H. F., see LIVINGSTON, M. W., jt. auth.
- BISHOP, H. F., see STEINBERG, B., jt. auth.
- BISHOP, K., see FOOT, E. B., jt. auth.
- BISHOP, K., see JUDOVICH, B. D., jt. auth.
- BITTENBENDER, G., see BUSH, O. F., jt. auth.
- BjÖRK, V. O., CARLENS, E., and FRIBERG, O., Endobronchial anesthesia, 14: 60
- BJURSTROM, R. O., see PEARCY, W. C., jt. auth.
- BLACHLY, P. H., and BROOKHART, J. M., Studies on the analeptic action of electrical stimulation in barbiturate poisoning, 16: 151
- BLACK, C., SHANNON, G. E., and KRANTZ, J. C., Studies with cyclopropyl methyl ether (cyprome ether) in man, 1: 274
- BLACK, G. W., see PRICE, H. L., jt. auth.
- Black, Joseph, identification of carbon dioxide (Foregger), 18: 257
- BLACK, M. G., Spinal fluid findings in spinal anesthesia, 8: 382
- BLAIR, H. A., see WEDD, A. M., jt. auth.
- Blast injury, anesthetic management (Martin & Schwab), 6: 131
- Bleeding  
arterial, controlled (Hale), 9: 498  
effect of pentamethonium iodide on (case report), 12: 253
- Block: see under Anesthesia; Muscles; Nerves; Pain, relief of
- Blocking Agents: see under names of specific substances and procedures
- Blood  
arterial  
ether content of, required for surgical anesthesia, effect of preanesthetic medication on (Taylor & others), 18: 849  
ether levels in ether analgesia, concentrations and flammability (Ebersole & Artusio), 19: 607  
oxygen  
desaturation  
during apnea in humans (Weitzner & others), 20: 624  
in severely burned patients: significance to anesthesiologist (abs.), 20: 133  
saturation  
changes in during bronchoscopies (De-Kornfeld & Siebecker), 18: 466  
and pulmonary ventilation during ether-air anesthesia (Ikezono & others), 20: 597  
and respiratory minute volume, during induction with nitrous oxide (abs.), 19: 94  
tension  
during nitrous oxide anesthesia (McQuiston & others), 4: 145  
studies during nitrous oxide-oxygen anesthesia, polarographic method for (abs.), 20: 126  
carbon dioxide and oxygen levels with carbon dioxide controlled artificial respirator (Frumin & others), 20: 313  
cells  
stimulation of wound healing by (Seldon & others), 5: 566  
survival of, after transfusion (Denstedt & others), 5: 237  
cholinesterases, interrelationship of succinylcholine during anesthesia (Borders & others), 16: 401  
circulation:  
arrest, electroencephalogram in hypothermia with (Pearcy & Virtue), 20: 341  
cerebral and metabolism, effect of, in man of acute reduction in blood pressure by means of intravenous hexamethonium bromide and head-up tilt (Stone & others), 16: 168  
cerebral and stellate ganglion blockade (edit.), 20: 697  
cessation of, in general hypothermia, anesthetic management (Zeavin & others), 15: 113  
changes associated with thiopental anesthesia (Elder & others), 16: 394  
clinical and laboratory effects of trifluoroethylvinyl ether (abs.), 18: 166  
during  
anesthetic procedures (edit.), 15: 700  
cyclopropane anesthesia, effects of controlled respiration on (Etsten & others), 16: 365  
dynamics of venous return during positive-negative pressure respiration (Hubay & others), 15: 445  
effect of  
chlorpromazine before and during cyclopropane anesthesia (Etsten & Li), 18: 203  
cyclopropane  
anesthesia on cardiac output and related hemodynamics (Li & Etsten), 18: 15  
on the blood pressure, stroke-volume and heart size of the dog, (Brace & others), 2: 261  
upon peripheral blood flow in man (Abramson & others), 2: 186  
dihydrocodeine upon (Eckenhoff & others), 18: 891  
muscle relaxants on (abs.), 20: 122  
promethazine upon (Eckenhoff & others), 18: 703

- ether-  
 s), 20:  
 during  
 (abs.),  
 (Mc-  
 oxygen  
 od for  
 carbon  
 spirator  
 don &  
 ed &  
 ccinyl-  
 ers &  
 hermia  
 man of  
 means  
 de and  
 168  
 ckade  
 anes-  
 ), 15:  
 sthesia  
 fluoro-  
 00  
 con-  
 s), 16:  
 positive-  
 bay &  
 cyclo-  
 ), 18:  
 and re-  
 sten),  
 ne and  
 ace &  
 a (Ab-  
 thers),  
 2  
 thers),
- thyroid hormones on hemodynamic and  
 metabolic response to epinephrine and  
 norepinephrine (abs.), 18: 156  
 extracorporeal: see oxygenator  
 pulmonary, in anesthetized patient with con-  
 trolled respiration (abs.), 18: 173  
 validity of features of decompensatory phase  
 of shock as signs of irreversibility (abs.),  
 18: 166  
 circulatory effects  
 of chloroform anesthesia in dogs (Pearcy &  
 others), 18: 88  
 of muscle relaxants during cyclopropane anes-  
 thesia (abs.), 20: 131  
 clot observation test for clinical diagnosis of  
 clotting defects (Poe), 20: 825  
 clotting  
 and cardiovascular disturbances during mas-  
 sive replacement (Howland), 19: 140  
 disturbances associated with multiple trans-  
 fusions (abs.), 18: 157  
 effect of cyclopropane and cyclopropane plus  
 hypercarbia on (abs.), 20: 128  
 coagulation time, effect of curare (Ting &  
 others), 13: 594  
 donor, fatality (corr.), 4: 202  
 early changes in dogs following intravenous  
 pentobarbital anesthesia (Graca & Garst),  
 18: 461  
 epinephrine-level, effect of cyclopropane (You-  
 mans & others), 4: 31  
 ethylvinyl ether, estimation of, (Linde), 19: 254  
 ether  
 concentrations correlated with electroen-  
 cephalographic patterns during ether-oxygen  
 and nitrous oxide, oxygen, ether anesthesia  
 (Faulconer), 13: 361  
 determination of (Price & Price), 17: 293  
 levels, determination of, with special refer-  
 ence to methyl n-propyl ether (Kibler), 8:  
 288  
 rapid determination of (Criscuolo & others),  
 20: 593  
 flow  
 after general anesthesia in sympathectomized  
 limbs (Beaconsfield & Messent), 16: 428  
 changes in the velocity of during spinal anes-  
 thesia (Doud & Rovenstine), 1: 82  
 and oxygen consumption of the human brain,  
 effect of thiopental on (Wechsler & others),  
 12: 308  
 pulmonary continuous alveolar carbon dioxide  
 analysis as monitor of (Leigh & others),  
 18: 878  
 gases  
 and electro-encephalographic observations in  
 human surgical patients during xenon anes-  
 thesia (Morris & others), 16: 312; (erratum),  
 563  
 analysis  
 with mass spectrometer  
 with mass spectrometer (Faulconer),  
 14: 405  
 determination of concentration of cyclo-  
 propane by total extraction (Possati &  
 others), 15: 196  
 determination of diethyl ether (Jones &  
 others), 14: 490  
 determination of nitrous oxide (Hattox  
 & others), 14: 584  
 total extraction of gases for determina-  
 tion of carbon dioxide and oxygen  
 (Patrick & others), 15: 95  
 changes, associated with various methods of  
 induction for endotracheal anesthesia  
 (Lachman & others), 16: 29  
 during  
 diffusion respiration in the dog (Whitehead  
 & others), 10: 54  
 parturition, effect of amnesic regimens on,  
 (Brown & Volpito), 11: 651  
 propethylene anesthesia (Evans & Krantz),  
 6: 159  
 spinal anesthesia (Latterell & Lundy), 10:  
 677  
 effect  
 of endotracheal tube size (Beecher), 11:  
 730  
 of thiopental alone and in combination with  
 oxygen or nitrous oxide oxygen (Burton  
 & others), 7: 505  
 fetal, effect of amnesic regimens (Brown &  
 Volpito), 11: 651  
 glucose level, effect of cyclopropane (Youmans  
 & others), 4: 31  
 groups (Wilson), 10: 188  
 hemodynamics  
 studies during thiopental sodium and nitrous  
 oxide anesthesia (Fieldman & others), 16:  
 473  
 sympatho-adrenal responses in man to gen-  
 eral anesthesia and their relation to (Price  
 & others), 20: 563  
 loss  
 during surgical procedures (Bonica & Lyter),  
 12: 90  
 at surgery, rapid method for evaluating suc-  
 tion bottle component (Rosenberg), 16:  
 722  
 serial microchematocrit determinations in  
 anesthesia (Norris & Hall), 20: 799  
 oozing during surgery problem of, (review)  
 (Crosby), 20: 685  
 oxygen  
 after rectal thiopental, in children (Mar-  
 bury), 11: 589  
 effect  
 anesthetic mixtures on (Thornton & others),  
 6: 498  
 of variations in intratracheal pressure on  
 (Thorton & others), 6: 498  
 oxygenation as affected by tidal volume and  
 tension of nitrous oxide-oxygen inhaled at  
 one mile altitude (Weaver & Virtue), 16:  
 57  
 Po<sub>2</sub> and Pco<sub>2</sub> determinations, electrodes for  
 (abs.), 20: 136

- pressure: see Blood Pressure
- promethazine
- measurement of concentration of, in fetal cord (abs.), 19: 93
  - venous, measurement of concentration of (abs.), 19: 93
- replacement (massive), cardiovascular and clotting disturbances during (Howland), 19: 140
- Rh
- factor (Collins & Nicholson), 5: 254
  - factor and the anesthesiologist (Pender), 13: 608
- solution for administration (Buschle & Saklad), 14: 53, (corr.), 14: 319
- sugar
- effect of prolonged thiopental anesthesia (Booker), 7: 405
  - effect of thiopental and thiopental plus nitrous oxide-oxygen anesthesia on (Sessoms & others), 16: 235
  - ether hyperglycemia as influenced by premedication and pentothal induction (Bass & others), 14: 18
  - thiopental, concentrations of (Bollman & others), 11: 1
- transfusion
- additive for (c.c.), 17: 625; (corr.), 17: 830
  - agitator for (c.c.), 9: 91
  - of blood and plasma (Seldon & others), 5: 22
  - exchange in erythroblastosis (Wiener & Wexler), 9: 296
  - multiple, disturbances of blood clotting associated with (abs.), 18: 157
  - positive pressure, an evaluation of (Hehre), 13: 621
  - reaction (Strumia), 12: 85
- reactions
- etiology and treatment (Wilson), 10: 188
  - hemolytic (Nicholson), 9: 345
  - hemorrhage associated with (case report), 10: 359
- recent advances (Beans), 3: 331
- Rh factor in (Pender), 13: 608
- service, dangers and safeguards (Seldon & others), 7: 122, (corr.), 7: 446
- a simplified technic for (corr.), 4: 203
- in treatment of massive hemorrhage (Cappe & Pallin), 12: 728
- venous pressure following (Anderson & Lundy), 10: 145
- trifluoroethylvinyl ether (Fluoromar), estimation of, in (Linde), 17: 777
- tubocurarine
- measurements of concentration of (Cohen & others), 18: 300
  - placental transmission of from maternal to fetal circulation in dogs (Pittinger & Morris), 14: 238
- volume
- determination of cardiac output by dye dilution method, modifications, comparison with Fick method, application during anesthesia (Etsten & Li), 15: 217
  - effect of pontocaine spinal anesthesia on (Guest & others), 10: 289
  - in men and women over sixty years of age as determined by modified  $\text{Cr}^{51}$  method (Smith), 19: 752
  - studies utilizing radiochromium-51 method, application to anesthesiology (Abajian & others), 16: 733
- Blood Pressure
- after cyclopropane anesthesia, "cyclopropane shock" (Dripps), 8: 15
- arterial
- aneroid manometer for (c.c.), 18: 906
  - and central venous during cyclopropane anesthesia, increase in (Price & others), 14: 1
  - effects of common respiratory phenomena during general anesthesia on (Jones & others), 17: 325
  - recording of (Eather & others), 10: 125
  - automatic recording (Slocum), 3: 141
  - changes, effect on cerebral blood flow (Kety), 10: 610
  - in children (Leigh & Belton), 11: 596
  - control during eclampsia by conduction anesthesia (Lund), 12: 694
  - control of, by arterial bleeding (Hale), 9: 498
  - coronary circulation, relation to (Eckenhoff), 11: 168
  - diastolic, high (case report), 9: 655
- during
- diffusion respiration (Parry & others), 10: 615
  - spinal anesthesia (Kruel & Orth), 12: 455
  - spinal anesthesia, regulation of (Milwidsky & de Vries), 9: 258
  - total body perfusion (Moffitt & others), 20: 18
- effect of
- curare (Gross & Cullen), 6: 231
  - decamethonium (Harris & Dripps), 11: 215
  - pituitary extract and ephedrine (Melville), 7: 176
  - positive pressure breathing (Watrous & others), 11: 661
  - posture (corr.), 9: 555
  - rise in, on cyclopropane-epinephrine cardiac irregularities (Murphy & others), 10: 416
- high: see Hypertension
- infant determination by the flush method (c.c.), 13: 648
- influence of premedicating drugs on vasomotor stability during spinal anesthesia (abs.), 20: 135
- low: see Hypotension
- monitor system for, simple constant (c.c.), 16: 466
- position of cuff and diaphragm for recording (c.c.), 5: 196
- and pulse, effects of common respiratory phenomena during general anesthesia on (Jones & others), 17: 325
- and pulse rate during Fluothane anesthesia (Moyers & Pittinger), 20: 605



- reduction (acute), by means of intravenous hexamethonium bromide and head-up tilt, effect on cerebral circulation and metabolism (Stone & others), 16: 168
- renal hemodynamics and water electrolyte excretion, controlled hypotension with Pendiomid on—comparison with hexamethonium and Arfonad and effect of norepinephrine (Moyer & others), 16: 355
- use of photo-sphygmometer in indirect measurements (c.c.), 20: 704
- venous, relation to blood volume (Anderson & Lundy), 10: 145
- Blood Vessels: see also Cardiovascular System
- disease of, nerve block for (edit.), 4: 301
- effect of anesthetics on, in the rabbit ear (Seldon & others), 3: 146
- effects of depth of anesthesia on behavior of peripheral vascular bed (Hershey & others), 14: 245
- finger block for local vasodilatation (c.c.), 20: 704
- paravertebral lumbar sympathetic block in treatment of peripheral vascular disease (Crandell & Page), 18: 454
- peripheral circulatory stress, an evaluation of protective action of autonomic blocking agents in (Hershey & others), 15: 589
- renal vasoconstrictor responses (Boba & others), 20: 268
- BLOOM, S. S., see SCHOTZ, S., jt. auth.
- BLOXSOM, A., Resuscitation of the newborn infant, 16: 41
- BLUNDELL, A. E., BODELL, B., ANDORKO, J. E., SWEENEY, J. C., and ANSBRO, F. P., Clinical evaluation of drugs used in obtaining lumbar epidural anesthesia, 16: 386
- BOBA, A., and CONVERSE, J. G., Ganglionic blockade and its protective action in hemorrhage: a review, 18: 559
- BOBA, A., POWERS, S. R., and STEIN, A. A., Studies on renal vasoconstrictor responses, 20: 268
- BODANSKY, M., JINKINS, J. L., LEVINE, H., and GILBERT, A., Clinical and experimental studies on paraldehyde, 2: 20
- BODELL, B., see ANSBRO, F. P., jt. auth.
- BODELL, B., see BLUNDELL, A. E., jt. auth.
- BOLLMAN, J. L., BROOKS, L. M., FLOCK, E. V., and LUNDY, J. S., Tissue distribution with time after single intravenous administration of Pentothal sodium (sodium ethyl (1-methylbutyl) and Pentothal S<sup>m</sup> thiobarbiturate), 11: 1
- BOLLMAN, J. L., FAZIO, A. N., and FAULCONER, A., JR., Some factors influencing the effects of anoxic anoxia, 12: 420
- Bonamine: see Meclizine Hydrochloride
- Bone
- concentration of pentothal in (Bollman & others), 11: 1
- marrow
- in'usions via (Tarrow & others), 13: 501
- route for injecting fluids (Papper), 3: 307
- BONE, J. R., Regional nerve block anesthesia, 6: 612
- BONICA, J. J., Clinical investigation of local anesthetics, 18: 110
- BONICA, J. J., The management of pain of malignant disease with nerve blocks, 15: 134; 280
- BONICA, J. J., Regional anesthesia with tetracaine, 11: 606, 716
- BONICA, J. J., Role of the anesthesiologist in the management of intractable pain, 16: 854
- BONICA, J. J., Transtracheal anesthesia for endotracheal intubation, 10: 736
- BONICA, J. J., BACKUP, P. H., ANDERSON, C. E., HADFIELD, D., CREPPS, W. F., and MONK, B. F., Peridural block: analysis of 3,637 cases and a review, 18: 723
- BONICA, J. J., BACKUP, P. H., and PRATT, W. H., Use of vasoconstrictors to prolong spinal anesthesia, 12: 431
- BONICA, J. J., CREPPS, W., MONK, B., and BENNETT, B., Postanesthetic nausea, retching and vomiting. Evaluation of cyclizine (Marezine) for treatment, 19: 532
- BONICA, J. J., and HALL, W. M., Endobronchial anesthesia for intrathoracic surgery, 12: 344
- BONICA, J. J., and LYTER, C. S., Blood loss during surgical operations, 12: 90
- BONIFACE, K. J., and BROWN, J. M., Quantitative evaluation of cardiovascular-stimulant drugs in barbiturate depression of the heart of the dog, 14: 23
- BONIFACE, K. J., see SUGIOKA, K., jt. auth.
- BONIFACE, K. J., see TAIT, C. A., jt. auth.
- BONNYCASTLE, D. D., see GERTNER, S. B., jt. auth.
- BOOKER, W. M., Observations on the carbohydrate metabolism during prolonged Pentothal anesthesia in dogs: I. The blood sugar and the liver glycogen, 7: 405
- BOOKHAMER, J. W., and CULLEN, S. C., Pulmonary edema during anesthesia—case reports, 4: 263
- BOONE, J. D., MUÑOZ, R., and DILLON, J. B., Nerval sodium: a new ultrashort acting thiobarbiturate: preliminary clinical investigations, 17: 284
- BOOZER, J., see DANCE, C. L., JR., jt. auth.
- BORDERS, R. W., STEPHEN, C. R., NOWILL, W. K., and MARTIN, R., The interrelationship of succinylcholine and the blood cholinesterases during anesthesia, 16: 401
- BORTIN, A. W., A new oxygen therapy apparatus: preliminary report, 4: 48
- BORTOLUZZI, E., Associated movements in anesthesia: the winking-jaw phenomenon, 20: 585
- BOSOMWORTH, P. B., ZIEGLER, C. H., and JACOBY, J., The oculo-cardiac reflex in eye muscle surgery, 19: 7
- BOUCAS, T., see SMITH, R. M., jt. auth.
- BOURGEOIS-GAVARDIN, M., NOWILL, W. K., MARGOLIS, G., and STEPHEN, C. R., Chlorpromazine, a laboratory and clinical investigation, 16: 829
- BOURGEOIS-GAVARDIN, M., see FABIAN, L. W., jt. auth.

- BOURGEOIS-GAVARDIN, M., see STEPHEN, C. R., jt. auth.
- BOURNE, W., Breathing in anesthesia (edit.), 3: 204
- BOURNE, W., Gaseous anaesthetics, 8: 227
- BOURNE, W., Impressions of the centenary celebrations of anaesthesia in Great Britain, 9: 239; 358
- BOURNE, W., On learning anaesthesia, 10: 157
- BOURNE, W., Presidential address (edit.), 3: 448
- BOURNE, W., Pure ether and impurities: a review, 7: 599
- BOURNE, W., Significant form in anaesthesia (edit.), 16: 454
- BOURNE, W., LEIGH, D., INGLIS, A. N., and HOWELL, G. R., Spinal anesthesia for thoracic surgery, 6: 492
- BOURNE, W., see GRIFFITH, H. R., jt. auth.
- BOURNE, W., see HOSEIN, E. A., jt. auth.
- BOWERS, F. W., Endotracheal anesthesia in the combat zone, 6: 492
- BOWERS, M. A., see STEPHEN, C. R., jt. auth.
- BOWERS, W. F., see NELSON, T. G., jt. auth.
- BOYAN, C. R., BELLVILLE, J. W., WANG, K. C., and HOWLAND, W. S., The relative potency of  $\beta$ , $\beta$ -methylglutaramide (Megimide) and pentamethylenetetrazol (Metrazol), 19: 321
- BOYAN, C. P., see HOWLAND, W. S., jt. auth.
- BRACE, D. E., Atelectasis, 3: 131
- BRACE, D. E., SCHERF, D., and SPIRE, L. J., Effect of cyclopropane on the blood pressure, stroke-volume and heart size of the dog, 2: 261
- BRACE, D. E., see REID, L. C., jt. auth.
- BRACE, D. E., see WETCHLER, B. V., jt. auth.
- Brachial Plexus  
block, axillary (c.c.), 19: 683  
paresis, prevention of (c.c.), 14: 206
- BRADASCH, G. A., Comparative value of various parenteral fluids, 5: 1
- BRADLEY, S. E., see ROVENSTINE, E. A., jt. auth.
- BRAHEN, L. S., see LU, G., jt. auth.
- Brain  
blood flow of, during thiopental anesthesia (Wechsler & others), 12: 308
- cerebral  
anoxia, symptomatology of (Himwich), 10: 663
- circulation  
and metabolism, effect on, of acute reduction in blood pressure by intravenous hexamethonium bromide and head-up tilt (Stone & others), 16: 168  
stellate ganglion blockade and (edit.), 20: 697
- cortex, and medulla oblongata, sodium succinate in pentobarbital depression of (Larson & others), 16: 239
- effect of d-tubocurarine, lack of (Smith & others), 8: 1
- physiology, acute effect of low-flow extracorporeal circulation on (abs.), 18: 169
- vascular  
accidents, clinical evaluation of cervico-thoracic sympathetic nerve block in management of (Poletti & others), 20: 576
- occlusions, stellate ganglion block in (Volpitto & Risteen), 4: 403
- circulation of (Kety), 10: 610
- cranial arteriography, use of intracarotid arterial procaine (abs.), 19: 96
- effect of  
anoxia on (Burdick & others), 10: 369
- anoxia on (Lucas), 12: 762
- local anesthetics on respiration of rat cortex in vitro (Geddes & Quastel), 17: 666
- electroencephalogram  
automatic control of thiopental anesthesia (Kiersey & others), 15: 356
- and blood gas observations in human surgical patients during xenon anesthesia (Morris & others), 16: 312; (erratum), 563
- cardiac arrest during chloroform monitored by (c.c.), 18: 504
- of cat after intravenous injection of lidocaine and succinylcholine (Acheson & others), 17: 802
- changes occurring during cardiopulmonary bypass (Cooms & other), 20: 804
- and circulatory effects of chloroform anesthesia in dogs (Pearcy & others), 18: 88
- and clinical study of changes during prolonged administration of low, graded concentrations of diethyl ether (abs.), 20: 129
- and clinical study of the traditional signs and stages of anesthesia (Calla & others), 19: 328
- correlations of, with trifluoroethylvinyl ether (abs.), 18: 167
- of dog, effects of drug-induced hypotension on (Schallek & Walz), 15: 673
- during nitrous oxide anesthesia (Faulconer & others), 10: 601
- effect of succinate on (Tucci & others), 10: 25
- frequency spectrum analysis during ether and cyclopropane (Bellville & Artusio), 17: 653
- in hypothermia with circulatory arrest (Pearcy & Virtue), 20: 341
- manifestations of amnesia and analgesia produced by nitrous oxide and ether (abs.), 18: 172
- new apparatus (c.c.), 17: 376
- and other observations in monkeys during xenon anesthesia at elevated pressures (Pittinger & others), 16: 551
- in patients undergoing open heart surgery with heart-lung bypass (Davenport & others), 20: 674
- pattern and frequency spectrum analysis during diethyl ether analgesia (Bellville & Artusio), 16: 379
- patterns during nitrous oxide-trifluoroethylvinyl ether anesthesia (Brechner & Dornette), 18: 321
- persistence of effects of Pentothal (Brazier & others), 17: 95

- electroencephalography  
in anesthesiology (review) (Martin & others),  
20: 359  
unipolar, studies on nitrous oxide, meperidine  
and levallorphan (Pearcy & others), 18: 310  
with methitural sodium (c.c.), 18: 140  
human, rates of uptake and release of thiopental  
by, relation to kinetics of thiopental anes-  
thesia (abs.), 18: 171  
Indoklon-induced cerebral cortical seizures, ef-  
fect of anesthesia with ether, Fluoromar  
and thiopental on (Ling & others), 20: 173  
kinetics of transfer of xenon and chloroform  
& others), 17: 523  
oxidative-phosphorylation in, effect of ethyl  
ether on (Hulme & Krantz), 16: 627  
oxygen consumption during thiopental anesthesia  
(Wechsler & others), 12: 308  
phosphokinase and anesthetics (Carr & others),  
16: 738  
pneumoencephalography and air embolism; simu-  
lated anesthetic death (Jacoby & others),  
20: 336  
scalp potential, effect of anesthesia (Burge), 6:  
61  
respiration, effect of picrotoxin on, in vitro  
(Goldbaum & Hubbard), 11: 773  
stem, responses evoked in, by tooth stimulation,  
effects of nitrous oxide on (Haugen & Mel-  
zack), 18: 183  
and symptomatology of anoxia (Himwich), 10:  
663  
thiopental, concentration of (Bollman & others),  
11: 1  
tissue, metabolic activity of, influence of nitrous  
oxide (Hosein & others), 16: 708  
BRANCATO, G. J., see WEINER, A. S., jt. auth.  
BRAND, L., see LYNCH, S., jt. auth.  
BRANDES, T. H., and ANDERSON, B. M., Use of a  
new synthetic muscle relaxant in clinical  
anesthesia 18: 155  
BRASHER, C. A., see CRAWFORD, O. B., jt. auth.  
BRAY, K. E., KATZ, S., and ADRIANI, J., The effect  
of vasoconstrictors upon the duration of  
spinal anesthesia: a controlled study in  
man, 10: 40  
BRAZELL, E. H., see ABAJIAN, J., jt. auth.  
BRAZIER, M. A. B., HAMLIN, H., DELGADO, J. M.  
R., and CHAPMAN, W. P., The persistence  
of electroencephalogram effects of Pento-  
thal, 17: 95  
BRAZIER, M. A. B., see TUCCI, J. H., jt. auth.  
Breath test, single, method of evaluating pul-  
monary ventilatory function (Miller &  
others), 17: 480  
Breathing: see Respiration  
BRECHER, G. A., see HUBAY, C. A., jt. auth.  
BRECHNER, V. L., and DORNETTE, W. H. L.,  
Electroencephalographic patterns during  
nitrous oxide-trifluoroethylvinyl ether anes-  
thesia, 18: 321  
BREHM, W. F., KING, A. B., COUGHLIN, J. B., and  
YOUNG, J., Use of intracarotid arterial  
procaine during cranial arteriography, 19: 96  
BRENA, S., see POLETTI, T., jt. auth.  
Brevidil E: see Suxethonium Dibromide  
BREWSTER, W. R., ISAACS, J. P., and OSGOOD, P.  
F., The effects of thyroid hormones on  
the hemodynamic and metabolic response  
to epinephrine and norepinephrine, 18:  
156  
BRIDENBAUGH, L. D., see MOORE, D. C., jt. auth.  
BRITTON, J. B., and VOLPITTO, P. P., Compati-  
bility of neuromuscular blocking agents  
with barbiturates, 14: 92  
BRIZZEE, K. R., see WU, J. J., jt. auth.  
BRODIE, B. B., see FRUMIN, M. J., jt. auth.  
BRODIE, B. B., see HELRICHE, M., jt. auth.  
BRODIE, B. B., see PAPPER, E. M., jt. auth.  
BRODY, J., The use of curare in sodium Pento-  
thal nitrous oxide-oxygen anesthesia, 6: 381  
Bromethyl (see tribromethyl alcohol)  
1-Brom propene-1, anesthetic potency and bio-  
chemical effects (Abreu & others), 2: 535  
2-Brom propene-1, anesthetic potency and bio-  
chemical effects (Abreu & others), 2: 535  
Bromsalizol, in polyethylene glycol to prolong sym-  
pathetic block (Harmel & others), 8: 266  
Bronchi  
caliber of  
a method for recording (Landmesser &  
Dripps), 9: 159  
effects of alternating positive and negative  
endotracheal pressures on (Lynch &  
others), 20: 325  
effect of  
anesthetic drugs upon bronchi and bronchioles  
of excised lung tissue (Adriani & Roven-  
stine), 4: 253  
decamethonium on (Harris & Dripps), 11:  
215  
isopropyl adrenalin on (Cohen & others), 10:  
451  
quantative evaluation of the constrictor, effect  
of curare on (Landmesser & others), 13:  
275  
Bronchography  
the anesthetists interest in (Sommerfeld), 3:  
61  
endotracheal catheter modified for (c.c.), 18:  
335  
Bronchopneumonia, the anesthetists responsibility  
(Waters), 1: 136  
Bronchoscopy  
anesthesia for (Carabelli), 13: 169  
changes in oxygen saturation during (De-  
Kornfeld & Siebecker), 18: 466  
chest respirator for (c.c.), 18: 135  
method of ventilation during (c.c.), 18: 335  
pyribenzamine as a topical anesthetic agent in  
(Mathieu & Crandell), 14: 572  
suction tip (new), improved method of obtain-  
ing wash specimens in (c.c.), 16: 1038  
ventilating bronchoscope (c.c.), 19: 406  
ventilation during anesthesia for (c.c.), 17: 623  
with wrap-around chest respirator (abs.), 20:  
127

## Bronchus

- bronchomotor effects of certain intravenous barbiturates on vagal stimulation in dogs (Bernstine & others), 18: 866
- preoperative recognition and treatment of bronchopulmonary disease (Miller & others), 18: 483
- ruptured right (c.c.), 15: 704
- subarachnoid hemorrhage following tracheobronchial suction and "stir-up" regimen, (case report), 15: 211
- tracheobronchial aspiration, extra length catheter for (c.c.), 15: 208
- BROOKHART, J. M., see BLACHLY, P. H., jt. auth.
- BROOKS, L. M., see BOLLMAN, J. L., jt. auth.
- BROSS, I. D. J., see BELLVILLE, J. W., jt. auth.
- BROTMAN, M., and CULLEN, S. C., Supplementation with Demerol during nitrous oxide anesthesia, 10: 696
- BROTMAN, M., CULLEN, S. C., and WILKENS, D. S., Intravenous supplementation during nitrous oxide anesthesia: comparison of Demerol, morphine and a new potent analgesic (15431), 11: 527
- BROTMAN, M., see WILKINS, D. S., jt. auth.
- BROWN, E. B., see BUCKLEY, J. J., jt. auth.
- BROWN, E. S., The activity and surface area of fresh soda lime, 19: 208
- BROWN, E. S., Factors affecting the performance of absorbents, 20: 198
- BROWN, E. S., Performance of absorbents: continuous flow, 20: 41
- BROWN, E. S., Voids, pores and total air space of carbon dioxide absorbents, 19: 1
- BROWN, E. S., BAKAMJIAN, V., and SENIFF, A. M., Performance of absorbents: effect of moisture, 20: 613
- BROWN, E. S., ELAM, J. O., and TEN PAS, R. H., Carbon dioxide homeostasis during anesthesia. I. Instrumentation, 16: 876
- BROWN, E. S., see ELAM, J. O., jt. auth.
- BROWN, E. S., see TEN PAS, R., jt. auth.
- BROWN, H. O., THOMSON, J. M., and FITZGERALD, J. E., An analysis of 500 obstetrical cases with continuous caudal anesthesia using Pontocaine, 7: 355
- BROWN, H. O., see NICKERSON, M., jt. auth.
- BROWN, H. O., see SMITH, S. M., jt. auth.
- BROWN, I. A., see VAN BERGEN, F. H., jt. auth.
- BROWN, J. M., and VOLPITTO, P. P., Effects of various amnesic regimens on the human maternal and fetal blood gases during parturition, 11: 651
- BROWN, J. M., VOLPITTO, P. P., and TORRIN, R., Intravenous Demerol-scopolamine amnesia during labor, 10: 15
- BROWN, J. M., see BONIFACE, K. J., jt. auth.
- BROWN, J. M., see COTTEN, M. DEV., jt. auth.
- BROWN, S., Fractional segmental spinal anesthesia in poor risk surgical patients: report of 600 cases, 13: 416
- BROWN, T. G., and LUDUENA, F. P., Penetrance of local anesthetics, 14: 555
- BROWN, W. E., Some suggestions for the conduct of continuous spinal anesthesia, 10: 193
- BRUNER, H. D., see MACON, E. B., jt. auth.
- BRUNN, H. M., FOLDES, F. F., McNALL, P. G., and KOUKAL, L. R., The combined use of narcotics and narcotic antagonists for premedication, 20: 122
- BRYCE-SMITH, R., and HINGSON, R. A., Intravenous sodium Seconal, 15: 347
- Buchanan oral-pharyngeal rebreathing tube, modified (c.c.), 11: 256
- BUCKINGHAM, W. W., see CRAWFORD, O. B., jt. auth.
- BUCKLEY, J. J., VAN BERGEN, F. H., DOBKIN, A. B., BROWN, E. B., MILLER, F. A., and VARCO, R. L., Postanesthetic hypotension following cyclopropane: its relationship to hypercapnia, 14: 226
- BUCKLEY, J. J., VAN BERGEN, F. H., HEMINGWAY, A., DEMORSET, H. L., MILLER, F. A., KNIGHT, R. T., and VARCO, R. L., Portable mass spectrometer for continuous alveolar gas analysis: certain technical considerations inherent in its use, 13: 455
- BUCKLEY, J. J., see MATTHEWS, J. H., jt. auth.
- BUCKLEY, J. J., see VAN BERGEN, F. H., jt. auth.
- BUEDIG, E., see PAPPER, E. M., jt. auth.
- BULL, A. B., see ACHESON, F., jt. auth.
- BUNKER, J. P., Disturbances in blood clotting associated with multiple transfusions, 18: 157
- BUNKER, J. P., BENDEXIN, H. H., MURPHY, A., and RAND, W. M., The evaluation of a new and inexpensive carbon dioxide analyzer, 19: 97
- BUNKER, J. P., BENDEXIN, H. H., SYKES, M. K., TODD, D. P., and SURTEES, A. D., A comparison of ether anesthesia with thiopental-nitrous oxide-succinylcholine for upper abdominal surgery, 20: 745
- BUNKER, J. P., see BENDEXIN, H. H., jt. auth.
- BURDICK, D. L., LISA, J. R., and ELLAS, M. G., Anoxia and the central nervous system: a review and case report, 10: 369
- BURDICK, D. L., and ROVENSTINE, E. A., Monocaine formate: its application in spinal anesthesia, 3: 514
- BURDICK, D. L., see PHELPS, MCK. L., jt. auth.
- BURFORD, G. E., Hyperthermia following anesthesia, 1: 208
- BURFORD, G. E., Tolerance of humans for procaine injected into the subarachnoid space, 3: 159
- BURCE, W. E., The effect of anesthesia upon scalp potential, 6: 61
- BURGISON, R. M., see CARR, C. J., jt. auth.
- BURHAM, P. J., Ministers of death, 15: 544
- BURKE, J. C., LINEGAR, C. R., FRANK, M. N., and MCINTYRE, A. R., Eserine and neostigmine antagonism to d-tubocurarine, 9: 251
- BURNAP, R. W., GAIN, E. A., and WATTS, E. H., Basal anaesthesia in children using sodium Pentothal by rectum, 9: 524
- BURNAP, T. K., GALLA, S. J., and VANDAM, L. D., Anesthetic, circulatory and respiratory effects of Fluothane, 19: 307

Burns

- arterial oxygen desaturation in severely burned patients: significance to anesthesiologists (abs.), **20**: 133
- Dolitrone in management of patients with (c.c.), **18**: 143
- function of the anesthesiologist in the treatment of (Allen & Slocum), **13**: 65
- treatment of, with procaine (Barbour and Tovell), **9**: 514
- BURNS, J. J., see FRUMIN, M. J., jt. auth.
- BURNS, J. J., see PAPPER, E. M., jt. auth.
- BURSTEIN, C. L., Apnea during anesthesia. 2. Influence of morphine alone and combined with atropine or scopolamine, **2**: 530
- BURSTEIN, C. L., Evipal for induction of anesthesia, **13**: 193
- BURSTEIN, C. L., Pediatric preanesthetic preparation, **14**: 567
- BURSTEIN, C. L., Preanesthetic medication with procaine amide. A preliminary clinical report, **13**: 510
- BURSTEIN, C. L., Treatment of acute arrhythmias during anesthesia by intravenous procaine, **7**: 113
- BURSTEIN, C. L., The utility of intravenous procaine in the anesthetic management of cardiac disturbances, **10**: 133
- BURSTEIN, C. L., and ALEXANDER, F. A. D., Anesthesia for thoracic surgery. Management in an army general hospital overseas, **8**: 36
- BURSTEIN, C. L., JACKSON, A., BISHOP, H. F., and ROVENSTINE, E. A., Curare in the management of autonomic reflexes, **11**: 409
- BURSTEIN, C. L., LoPINTO, F. L., and NEWMAN, W., Electrocardiographic studies during endotracheal intubation. I. Effects during usual routine techniques, **11**: 224
- BURSTEIN, C. L., MARANGONI, B. A., DeGRAFF, A. C., and ROVENSTINE, E. A., Laboratory studies on the prophylaxis and treatment of ventricular fibrillation induced by epinephrine during cyclopropane anesthesia, **1**: 167
- BURSTEIN, C. L., WOLOSIN, G., and NEWMAN, W., Electrocardiographic studies during endotracheal intubation. II. Effects during general anesthesia and intravenous procaine, **11**: 299
- BURSTEIN, C. L., ZAINO, G., and NEWMAN, W., Electrocardiographic studies during endotracheal intubation. III. Effects during general anesthesia and intravenous diethylaminoethanol, **12**: 411
- BURSTEIN, C. L., see ARCURI, R. A., jt. auth.
- BURSTEIN, C. L., see CoTui, jt. auth.
- BURSTEIN, C. L., see DANCE, C. L., jt. auth.
- BURSTEIN, C. L., see MARK, L. C., jt. auth.
- BURSTEIN, C. L., see PETERS, N. S., jt. auth.
- BURSTEIN, C. L., see ROSNER, S., jt. auth.
- BURSTEIN, C. L., see TRAINA, V., jt. auth.
- BUSCHLE, D. F., and SAKLAD, M., A compatible solution for administration with blood, **14**: 53
- BUSH, O. F., BITTENBENDER, G., and ADRIANI, J., Electrocardiographic changes during ethyl

chloride and vinyl ether anesthesia in the dog and man, **13**: 197

- BUSH, O. F., PENTECOST, P. S., and ADRIANI, J., Seconal sodium as a basal hypnotic and adjunct to anesthesia—an evaluation of an improved preparation for intravenous administration, **12**: 447
- BUSH, R. C., Caudal analgesia for vaginal delivery. I. Organization, medication, technique, maternal and perinatal infant mortality, **20**: 31
- BUSH, R. C., Caudal analgesia for vaginal delivery. II. Analysis of complications, **20**: 186
- Butethamine: see Monocaine
- BUTLER, W. J., see NESBIT, R. M., jt. auth.
- Butoxycaine Hydrochloride (Sympocaine), local anesthetic (new) (Luduena), **16**: 751
- BYRD, M. L., Misuse of epinephrine during ether anesthesia: case report, **2**: 654
- BYRD, M. L., POSTNA, E. Y., and VAN DOMMELEN, G. M., Lumbar sympathetic nerve block for obstetrical analgesia; preliminary report of over 1,200 cases, **19**: 98
- BYRD, M. L., see ADRIANI, J., jt. auth.
- CADE, J. R., see MILLER, W. F., jt. auth.
- Caffeine, effects on respiratory center (abs.), **19**: 95
- Calcium, effect of, on duration of apnea induced by succinylcholine (Irwin & others), **17**: 759
- Calcium hydroxide, efficiency of, in the absorption of carbon dioxide (Adriani & Batten), **3**: 1
- CALESNICK, B., see BEUTNER, R., jt. auth.
- CAMERON, J. D., see LUND, P. C., jt. auth.
- CAMERON-CURRY, V., see POLETTI, T., jt. auth.
- Cancer; see also Pain
- trichloroethylene for reduction of pain of malignant disease (c.c.), **17**: 208
- Canisters: see also Carbon Dioxide Absorbers; Apparatus
- carbon dioxide (Adriani & Boyd), **2**: 450
- resistance in, and respiratory valves (Hunt), **16**: 190
- with shunt valve arm (c.c.), **19**: 565
- CANN, J. E., and WYCOFF, C. C., Continuous spinal anesthesia: a modification of the ureteral catheter technic, **9**: 288
- CANN, J. E., and WYCOFF, C. C., Incidence of headache with use of 27 gauge spinal needle, **11**: 294
- CAPPE, B. E., and DEUTSCH, E. V., A malleable cone-tip needle for fractional spinal anesthesia, **14**: 398
- CAPPE, B. E., and PALLIN, I. M., Treatment of massive hemorrhage in obstetric cases by transfusion and norepinephrine, **12**: 728
- CARABELLI, A. A., Use of pontocaine in subposologic quantities for bronchoscopy and bronchography, **13**: 169
- CARANNA, L. J., see VIRTUE, R. W., jt. auth.



## Carbon Dioxide

Baralyme, a new absorbent (Kilborn), 2: 621

## absorbents

continuous flow (Brown), 20: 41

factors affecting performance (Brown), 20: 204

performance of, effect of moisture (Brown & others), 20: 613

voids, pores and air space (Brown), 19: 1

## absorbers

absorbers (Adriani & Rovenstine), 2: 1

absorbers (corr.), 18: 793

absorbers (c.c.), 19: 414

channeling and overpacking (c.c.), 19: 403

improved (c.c.), 18: 339

## absorption

chemical, from anesthetic atmospheres (Waters), 4: 596

circle versus the to-and-fro (Ten Pas & others), 19: 231

a clinical study during anesthesia (Mousel & others), 7: 375

control of temperature during (c.c.), 9: 197

defective, in anesthetic machine (c.c.), 17: 829

during anesthesia, factors influencing (Nealon & others), 19: 75

effect of varying the moisture content of soda lime upon the efficiency of (Adriani), 6: 163

the efficiency of mixtures of barium and calcium hydroxides in (Adriani & Batten), 3: 1

experimental studies on (Adriani & Rovenstine), 2: 1

Jan Ingen Housz and Joseph Priestley, controversy on (Foregger), 17: 511

nitrous oxide anesthesia adapted to the "to and fro" absorption technic (Lyons), 2: 321

properties of ion exchange resins (Smart & Derrick), 18: 216

properties of monoethanolamine (Derrick & Smart), 18: 551

regeneration of soda lime following (Foregger), 9: 11

soda lime containing indicators (Adriani), 5: 45

studies in (Conroy & Seevers), 4: 160

analysis (continuous alveolar) as monitor of pulmonary blood flow (Leigh & others), 18: 878

analyzer (new and inexpensive) (abs.), 19: 97

Black, Joseph, and identification of (Foregger), 18: 257

## blood

level during labor, effect of amnesic regimens on (Brown & Volpito), 11: 651

levels with carbon dioxide controlled artificial respirator (Frumin & others), 20: 313

content in alveolar air, simple method of determining (c.c.), 20: 702

determination (Strayer), 11: 599

determination in blood, analysis of gases in blood with mass spectrometer, total extraction of gases for (Patrick & others), 15: 95

## effect of

changes in tidal volume and alveolar  $P_{CO_2}$  on physiological dead space (abs.), 18: 160

cyclopropane and cyclopropane plus hypercarbia on blood clotting (abs.), 20: 128

hypocapnea on development of ether anesthesia in dog (Guy & others), 20: 55

effect on coronary circulation (Eckenhoff), 11: 168

electrodes for blood oxygen and (abs.), 20: 136

elevated end-expiratory tensions, cardiac rate and rhythm during steady levels of cyclopropane anesthesia at (Lurie & others), 19: 457

excess and oxygen deficiency during ether and barbiturate anesthesia in dog, respiratory effects (Gordh & Aström), 16: 245

homeostasis (corr.), 18: 510

## during anesthesia

evaluation of partial rebreathing system (Elam & Brown), 17: 128

instrumentation (Elam & others), 16: 876

total sampling for determination of dead space, alveolar ventilation and carbon dioxide output (Elam & Brown), 16: 886

ventilation and carbon dioxide elimination (Elam & Brown), 17: 116; (corr.), 631

hypercapnia, effect of narcotics, thiopental and nitrous oxide upon respiration and respiratory response to (Eckenhoff & Helrich), 19: 240

infrared analysis

in respired gases containing cyclopropane and ether (Linde & Lurie), 20: 45

collision broadening effect of nitrous oxide upon (Bergman & others), 19: 19

inhalation

during cyclopropane anesthesia, epinephrine and norepinephrine in initiation of ventricular arrhythmias by (Price & others), 19: 619

of, role of diffusion anoxia in production of arrhythmias following (abs.), 18: 158

measurement of (Loomis & Beyer), 12: 173

respiratory response to

during narcotic and barbiturate depression in anesthetized man, comparative effects of levallorphan tartrate (Landmesser & others), 16: 520

effect of

sleep on (Bellville & others), 20: 628

N-allylnormorphine upon respiratory depression (Landmesser & others), 14: 535

noscipine and codeine on (Bellville & others), 19: 545

retention during hypoventilation (Earle & others), 19: 153

tension

effect on cerebral vessels (Kety), 10: 611

- studies during use of semiclosed inhalers (Swartz & others), 14: 437
- transients
- during ether and cyclopropane anesthesia, respiratory responses to (Cobb & others), 19: 359
- respiratory responses to (Landmesser & others), 18: 807
- Carbon tetrafluoride, to prevent cyclopropane-oxygen explosion (Jones & others), 11: 562
- Cardiac: see Heart
- Cardiac Arrest: see Heart, arrest
- Cardiotachoscope (Himmelstein & Scheiner), 13: 62
- Cardiovascular Disease
- anesthesia for urgent intra-abdominal surgical procedures in patients with (Johnson & Livingstone), 15: 150
- Cardiovascular Stimulants: see also names of specific substances
- barbiturate depression of the heart of dog, drugs in (Boniface & Brown), 14: 23
- Cardiovascular System: see also Heart; Blood Vessels; Blood, circulation
- and clotting disturbances during massive blood replacement (Howland), 19: 140
- cardiorespiratory effects and pharmacologic properties of hydroxydione (abs.), 19: 108
- cardiovascular effects of continuous intravenous infusion of norepinephrine, epinephrine and neosynephrine during cyclopropane and ether anesthesia in dog (Deterling & others), 15: 11
- circulation
- during surgery using volume displacement ventilator (abs.), 19: 100
- ear oximeter as monitor (Schotz & others), 19: 386
- renal hemodynamics in hypertensive patients following administration of pendiomide (Moyer & others), 17: 9
- circulatory effects of Fluothane (Burnap & others), 19: 307
- comparison of cardiovascular properties of new nonbarbiturate intravenous anesthetic agent (dolitrone) with thiopental (Cotten & Bay), 17: 103
- control of vagal reflexes during surgery (Fisher & Winsor), 14: 596
- dynamics of venous return during positive-negative pressure respiration (Hubay & others), 15: 445
- effects of
- commonly used pressor amines (review) (Aviado), 20: 71
- Fluothane (abs.), 106 (Hall & Norris), 19: 339
- functions in dog, effect of morphine and cyclopropane upon (Greisheimer & others), 18: 196
- and ether upon (Greisheimer & others), 18: 73
- and thiopental sodium-oxygen upon (Greisheimer & others), 17: 798
- hemodynamic effects of chlorpromazine, including cardiac work and coronary blood flow (Maxwell & others), 19: 64
- modification of circulatory response to electroshock therapy by thiopental (Egbert & others), 20: 309
- properties of hydroxydione (Montmorency & others), 19: 450
- reflex circulatory responses to tracheal intubation performed under topical anesthesia (King & others), 15: 231
- responses to ultrashort acting barbiturates (Greisheimer & others), 17: 385
- studies of adrenergic and ganglionic stimulating drugs administered during cyclopropane (Cummings & Hays), 17: 314
- studies on muscle relaxants (abs.), 18: 161
- surgery, renal function during anesthesia for (Morris & others), 20: 608
- CARDWELL, J. L., Anesthesia trends in naval hospitals, 6: 83
- CARLENS, E., see Björk, V. O., jt. auth.
- Carlens catheter, lack of laryngeal trauma after use (Siebecker & Land), 17: 660
- CARMICHAEL, E. B., Median lethal dose (LD<sub>50</sub>) of Pentothal sodium for both young and old guinea pigs and rats, 8: 589
- CARMICHAEL, E. B., Mutual cross tolerance and tolerance studies with pentobarbital and Delvalin sodium in rats, 9: 532
- CARMICHAEL, E. B., Seasonal variations of the LD<sub>50</sub> of Delvalin sodium for both young and old rats, 9: 418
- CARMICHAEL, E. B., and JOHNSON, W. H., LD<sub>50</sub> of pentobarbital sodium for both nursed and unnursed newborn rats, 12: 340
- CARMICHAEL, E. B., see KAY, F. A., jt. auth.
- CARMICHAEL, E. B., see PHILLIPS, G. W., jt. auth.
- CARNEY, T. P., see ROSE, C. L., jt. auth.
- Carotid Sinus Reflex
- effect of curare (Burstein & others), 11: 409
- hypersensitive, failure of curare to block (Clark), 16: 716
- CARR, C. J., BELL, F. K., and KRANTZ, J. C., JR., Anesthesia. XLVII. Brain phosphokinase and anesthetics, 16: 738
- CARR, C. J., BURGISON, R. M., BELL, F. K., and KRANTZ, J. C., JR., Anesthesia XXXVI. Anesthesia with deuterocarbons and cardiac automaticity, 12: 230
- CARR, C. J., FARSON, DE C. B., and KRANTZ, J. C., JR., Anesthesia XXIII. The anesthetic properties of three isomeric ethers, 8: 53
- CARR, C. J., KIBLER, D., and KRANTZ, J. C., JR., Anesthesia. XIV. A study of certain physical properties of isopropenyl vinyl ether, 5: 495
- CARR, C. J., see EVANS, W. E., jt. auth.
- CARR, J. C., see KRANTZ, J. C., JR., jt. auth.
- CARR, J. C., see OSTER, R. H., jt. auth.
- CARRON, H., Anaphylaxis and anesthesia (a preliminary report), 8: 625
- CARRON, H., Nembutal in the fenestration operation, 12: 465

- CARRON, H., STOELTING, V. K., and CULLEN, S. C., Pentobarbital sodium-curare induction for endotracheal intubation, 9: 11
- CARTER, A. B., HERBERT, C. L., DEWALD, W. S., and TALLEY, A. W., Multiple autoclaving of drugs used in spinal anesthesia, 15: 480
- CARTER, H. R., see GROSS, E. G., jt. auth.,
- CASE, E. H., Present status of trichlorethanol, 4: 523
- CASE, E. H., and STILES, J. A., Effect of various surgical positions on vital capacity, 7: 29
- CASSELS, W. H., BECKER, T. J., and SEEVERS, M. H., Convulsions during anesthesia I: 56
- CASSELS, W. H., and GITTLESON, L. A., Diaphragmatic paralysis, 9: 48
- CASSELS, W. H., and RAPOPORT, A. E., Atelectasis during anesthesia, 5: 174
- CASSELS, W. H., and YEAGER, H. E., Anesthetic and postanesthetic respiratory problems in an infant operated on for tracheo-bronchial fistula (case report), 6: 268
- CASSELS, W. H., see CONROY, W. A., jt. auth.
- CASSELS, W. H., see HOLINGER, P. H., jt. auth.
- CASSELS, W. H., see TEPLINSKY, L. L., jt. auth.
- CASSELS, W. H., see WHEELER, E. T., jt. auth.
- CASTEN, D. F., see BETCHER, A. M., jt. auth.
- CASTILLO, C., see MAXWELL, G. M., jt. auth.
- Catheterization: see Heart, catheterization
- Catheters: see Apparatus
- CATTANEO, A. D., see CIOCATTO, E., jt. auth.
- Causalgia (Gerard), 12: 1
- CAVALLITO, C. J., ARROWOOD, J. G., and O'DELL, T. B., Influence of anesthesia on the neuromuscular blocking activity of mylaxen, 17: 547
- CEDARLEAF, S. J., SCHULTZ, E. A., GORDON, J. R., and VAN BERGEN, F. H., The combined effect of thiopental-Flaxedil, intubation and atropine on dead space, 18: 157
- Celiac plexus reflex, effect of curare (Burstein & others), 11: 409
- Cell  
metabolism and anesthetics (Gerard), 8: 453  
respiration and fermentation: a background for the study of narcotic action (Field), 8: 127
- Cephalalgia: see Anesthesia, spinal, headache; Complications, post spinal headache
- Cerebrospinal Fluid  
concentration of Pontocaine hydrochloride in, influence of epinephrine in prolonging sensory anesthetic effect (Converse & others), 15: 1  
densities, of human beings (Davis & King), 15: 666  
measurement of concentration of promethazine in (abs.), 19: 93  
pH of, relation to failure of spinal anesthesia (Cohen & Knight), 8: 594  
pressure, effect of meperidine (Kepes), 13: 281  
specific gravity (corr.), 12: 129  
specific gravity of (Davis & King), 13: 184
- Cerebrovascular: see under Brain
- Cerebrum: see Brain
- Cerium oxalate, as a prophylactic against post-operative vomiting (Gordh & Rydin), 7: 526
- Cervical arachnoiditis, after spinal anesthesia (Haynes & Smith), 3: 444
- Cesarean section: see Obstetrics
- CHAFFEE, W. R., see HAMPTON, L., jt. auth.
- CHAMBERS, R., see HERSHEY, S. G., jt. auth.
- CHAPMAN, D. W., see HUGGINS, R. A., jt. auth.
- CHAPMAN, W. P., see BRAZIER, M. A. B., jt. auth.,
- CHASE, H. F., and HAMPTON, L. J., The role of diffusion anoxia in the production of arrhythmias following inhalation of carbon dioxide, 18: 158
- CHASE, H. F., see BASS, W. P., jt. auth.
- CHASE, H. F., see NEALON, T. F., jt. auth.
- CHASE, H. F., see SESSOMS, G. W., jt. auth.
- CHEN, A., see MONTMORENCY, F. A., jt. auth.
- CHEN, K. K., see ROSE, C. L., jt. auth.
- Chest: see Thorax
- CHESTER, R. V., see CRAWFORD, O. B., jt. auth.
- CHERRY, H., and PALLIN, I. M., Music as a supplement in nitrous oxide-oxygen anesthesia, 9: 391
- Children: see also Anesthesia, pediatric; Infants; under names of specific diseases and procedures  
anatomic considerations of the infant larynx (Eckenhoff), 12, 401  
anesthesia  
basal  
blood oxygen saturation in, during rectal thiopental (Marbury), 11: 589  
comparison of rectal thiopental and morphine for (Artusio & Trousdell), 11: 443  
with rectal thiopental (Burnap & others), 9: 524  
for cardiac catheterization in (Keown & others), 18: 270  
cardiac surgery, management of (Harris), 11: 328  
for children (case report), 9: 319  
cleft lip and cleft palate (Leigh and Kester), 9: 32  
considerations in the choice of agents and methods (Leigh and Belton), 11: 592  
for diagnostic cardiac catheterization (Fieldman & others), 16: 868  
endotracheal (Leigh and Kester), 9: 32  
endotracheal (Pender), 15: 495  
rebreathing in (corr.), 16: 813  
pulse during (Jackson), 9: 573  
spinal for (Berkowitz and Greene), 12  
spinal, hypobaric pontocaine (Slater and Stephen), 11: 709  
anesthetic management of, with double aortic arch (abs.), 18: 175  
apparatus  
for children (c.c.), 9: 88  
endotracheal tube  
for children (c.c.), 6: 87, 627  
improved for pediatric use (Adriani & Griggs), 15: 466  
sizes for (Slater & others), 16: 950



- equipment (c.c.), 16: 808  
a nonbreathing mask for (Stephen & Slater), 13: 226  
recommendations and descriptions of improvements in apparatus (Adriani & Griggs), 14: 337  
use of "space helmet" for induction of (c.c.), 16: 290  
Banthine, use of, as a drying agent for (Alver & Vander Wood), 17: 73  
curare in, use of (Smith), 8: 176  
hypno-induction techniques in (c.c.), 19: 279  
induction, simple aid for, in children (c.c.), 15: 214  
newer anesthetic agents in (Stephen & Slater), 12: 135  
nonbreathing method—technics in pediatric anesthesia (Stephen), 13: 77  
preanesthetic  
medication for, oral and intramuscular routes (Root), 20: 49  
premedication in (Leigh & Belton), 7: 611  
preparation (Burstein), 14: 567  
psychologic preparation of children (Jackson), 12: 293  
psychological preparation and premedication (Francis & Cutler), 18: 106  
succinylcholine  
bradycardia following intravenous (Leigh & others), 18: 698  
in cardiovascular surgery of (Telford & Keats), 18: 841  
valve, new low resistance for (c.c.), 16: 805  
CHINN, H. Y. H., see FELDMAN, E., jt. auth.  
CHIPP, J. E., see MAKEL, H. P., jt. auth.  
CHIRON, A. E., see KOTKIN, S., jt. auth.  
CHIRON, A. E., see LEAR, E., jt. auth.  
Chloroform  
anesthesia  
cardiac arrest during, monitored by electroencephalogram and electrocardiogram (c.c.), 18: 504  
in dogs, electroencephalographic and circulatory effects (Percy & others), 18: 88  
epinephrine induced cardiac irregularities in dog during (Morris & others), 14: 153  
centennial of (Kindschi), 9: 1  
chloroform (Stewart), 2: 635  
determination (Strayer), 11: 599  
effect on  
blood sugar (Johnson), 10: 379  
isolated auricle of the cut (Acierao and DiPalma), 12: 567  
liver (Hugill), 11: 567  
myocardium (Fisher & others), 12: 19  
inhalers for (abs.), 19: 109; (Ngai & others), 19: 488  
kinetics of transfer between blood and brain in dog (Pittinger & others), 17: 523  
neuromuscular effects of (Watland & others), 18: 883  
nomogram for (c.c.), 20: 378  
Pituitrin with (Parsloe & others), 11: 76  
report of seven administrations of, for open thoracic operations (Siebecker & Orth), 17: 792  
2-Chloroprocaine hydrochloride, a new local anesthetic (Foldes & McNall), 13: 287  
Chlorpromazine: see under Phenothiazine  
1-Chlor propene-1, anesthetic potency and biochemical effects (Abreu & others), 2: 535  
2-Chlor propene-1, anesthetic potency and biochemical effects (Abreu & others), 2: 535  
Cholinesterase  
blood, interrelationship of succinylcholine during anesthesia (Borders & others), 16: 401  
inhibitory effect of neuromuscular blocking agents and their antagonists on (abs.), 18: 163  
relation to procaine (Oppenheimer & others), 10: 406  
CHRISTENSEN, E. M., URRY, A. G., and CULLEN, S. C., Alveolar and arterial oxygen contents during oropharyngeal oxygen therapy, 7: 399  
CHRISTENSEN, E. M., see GROSS, E. G., jt. auth.  
Chromium, radiochromium-51 method, blood volume studies utilizing, application to anesthesiology (Abajian & others), 16: 733  
CHURCHILL-DAVIDSON, H. C., The causes and treatment of prolonged apnoea, 20: 535  
CHURCHILL-DAVIDSON, H. C., Neuromuscular block in man, 17: 88  
CHURCHILL-DAVIDSON, H. C., see MILES, B. E., jt. auth.  
Ciliary action, production of negative pressure in the respiratory tract by, and its relation to atelectasis (Hilding), 5: 225  
CILIBERTI, B. J., GOLDFEIN, J., and ROVENSTINE, E. A., Hypertension during anesthesia in patients with spinal cord injuries, 15: 273  
CILIBERTI, B. J., see BETCHER, A. M., jt. auth.  
CILIBERTI, B. J., see BISHOP, H. F., jt. auth.  
CILIBERTI, B. J., see TRAINI, V., jt. auth.  
CIOCATTO, E., and CATTANEO, A. D., Experimental and clinical results with controlled hypothermia, 17: 16  
CIOCATTO, E., see DOGLIOTTI, A. M., jt. auth.  
Circulation: see also Blood, circulation: Heart; Cardiovascular System  
cerebral (Kety), 10: 610  
changes during anesthesia for neurosurgery (Howland & Papper), 13: 343  
coronary, physiology (Eckenhoff), 11: 168  
during anesthesia  
anesthesia (corr.), 6: 530  
studies (Eather & others), 10: 125  
shock, and hemorrhage; the digital plethysmograph as a clinical guide (Foster & others), 6: 246  
during intravenous procaine (Taylor & others), 11: 185  
effects of  
anesthesia on peripheral vascular homeostasis (Hershey & Zweifach), 11: 145  
controlled respiration on (Watrous & others), 12: 33

- decamethonium (Harris & Dripps), 11: 215  
 increased pressure in the airway (Beecher & others), 4: 612  
 morphine on and upon the circulatory and respiratory responses to tilting (Drew & others), 7: 44  
 pituitary extract and ephedrine on (Melville), 7: 176  
 positive pressure respiration (Watrous & others), 11: 661  
 respiration (Watrous & others), 11: 538  
 spinal anesthesia in normal man with reference to the autonomy of arteriolar tone (Rovenstine & others), 3: 421  
 factors affecting anesthesia in surgery for congenital heart disease (Smith), 13: 38  
 immediate decrease in blood pressure at the conclusion of cyclopropane anesthesia (Dripps), 8: 15  
 neurogenic control in dogs under ether anesthesia (McAllister & Root), 3: 491  
 peripheral, reactions as a basis for evaluating anesthetic agents (Hershey & others), 6: 362  
 pulmonary embolus, treatment of by stellate block (Bageant and Rapee), 8: 500  
 reflex responses of, to laryngoscopy and intubation (King and others), 12: 556  
 Civil defense, anesthesiologist and (edit.), 15: 436  
 CLAASSEN, L., see JACOBY, J., jt. auth.  
 CLAPPISON, G. B., and HAMILTON, W. K., Respiratory adjustments to increases in external dead space, 17: 643  
 CLARIE, D. C., see FITZPATRICK, L. J., jt. auth.  
 CLARK, B. B., see MARTIN, S. J., jt. auth.  
 CLARK, R. E., Failure of curare to block the hyper-sensitive carotid sinus reflex, 16: 716  
 CLARK, R. E., ORKIN, L. R., and ROVENSTINE, E. A., An objective method of evaluating topical anesthesia in man utilizing the laryngeal reflex. The effect of methylcellulose, Triton A-20, and hyaluronidase as determined thereby, 15: 161  
 CLARK, R. E., see POLLOCK, P., jt. auth.  
 CLARK, S. S., Anesthesia for thoracolumbar sympathectomy, 11: 345  
 CLARK, S. S., BENNETT, W. D., and FLAUTT, J. R., Clinical report on controlled hypotension with Arfonad, 16: 434  
 Cleaning: see also under Detergents; Apparatus, sterilization of  
 reaction to improperly cleaned endotracheal catheter (c.c.), 18: 505  
 CLEMENT, F. W., Nitrous oxide-oxygen anesthesia, 7: 616  
 CLEMENT, F. W., Surgery before the days of anesthesia, 14: 473  
 CLEMENT, F. W., and ELDER, C. K., Observations on wartime anesthesia, 4: 516  
 CLIFFTON, E. E., see HOWLAND, W. S., jt. auth.  
 COAKLEY, C. S., MAUK, M. H., AQUILAR, F. N., YAMASKI, Y., and ECCLESTON, H. N., A study of drugs used for preanesthetic medication, 18: 159  
 COAKLEY, C. S., see MOUSEL, L. H., jt. auth.  
 COAKLEY, C. S., see SPENCER, C. H., jt. auth.  
 COAKLEY, C. S., see TOVELL, R. M., jt. auth.  
 COBB, S., CONVERSE, J. G., and LANDMESSER, C. M., Respiratory responses to carbon dioxide transients during ether and cyclopropane anesthesia, 19: 359  
 COBB, S., see LANDMESSER, C. M., jt. auth.  
 Cobefrin, with procaine, sensitivity to (case report), 6: 86  
 Cocaine  
 effect on heart (Burstein and others), 12: 411  
 with Pentothal-curare for suspension laryngoscopy (Davis), 11: 245  
 sympathomimetic effect of, in production of cardiac arrhythmias during cyclopropane anesthesia (Evangelou & Adriani), 16: 1017  
 Codeine  
 effect on  
 respiratory response to carbon dioxide (Bellville & others), 19: 545  
 respiratory center (abs.), 19: 95  
 COHEN, E. N., and KNIGHT, R. T., Hydrogen ion concentration of the spinal fluid and its relation to spinal anesthetic failures, 8: 594  
 COHEN, E. N., PAULSON, W. J., and ELERT, B., Studies of *d*-tubocurarine with measurements of concentration in human blood, 18: 300  
 COHEN, E. N., VAN BERGEN, F., and KNIGHT, R. T., Bronchodilation under anesthesia with 1(3,4-dihydroxyphenyl)-2-isopropyl aminoethanol hydrochloride, a comparative study (preliminary report), 10: 451  
 COHEN, G., see FRUMIN, M. J., jt. auth.  
 COHEN, H. P., COHEN, M. M., LIN, S., and BAKER, A. B., Tissue levels of trichloroethylene after acute or chronic exposure, 19: 188  
 COHEN, M. M., see COHEN, H. P., jt. auth.  
 Cold: see Hypothermia  
 COLE, F., Defense of spinal anesthesia, 13: 407  
 COLE, F., Intravenous oxygen, 12: 181  
 COLE, F., A new lethal dose of curare, with some observations on the pathology produced by large doses, 7: 190  
 COLE, F., The use of curare in anesthesia: a review of 100 cases, 6: 48  
 COLE, F. V., see MOORE, D. C., jt. auth.  
 COLE, V. V., see HULPIEU, H. R., jt. auth.  
 COLGAN, F. J., DeWeese, J. A., MANNING, J. A., and MAHONEY, E. B., Hypothermia and coronary perfusion for surgery of atrial and valvular defects, 20: 811  
 COLGAN, F. J., and KEATS, A. S., Subglottic stenosis: a cause of difficult intubation, 18: 265  
 COLLIER, T. J., Crawford Williamson Long, 1815-1878, 4: 279  
 COLLINS, C. C., and NICHOLSON, M. J., The Rh factor, 5: 254  
 COLLINS, C. G., see HOWARD, J. P., jt. auth.  
 COLLINS, V. J., The anesthetist's second power, (edit.), 9: 437  
 COLLINS, V. J., Endotracheal anesthesia with sodium Pentothal for maxillofacial surgery: report on 48 cases, 9: 62

COLLINS, V. J., see ROBIN, P. A., jt. auth.  
 COLLINS, V. J., see SMESSAERT, A., jt. auth.  
 COLLINS, W. F., see DAVIS, H. S., jt. auth.  
 Colon, effect of various anesthetics on, in the dog  
 (Van Liere & others), 5: 597  
 COLON-YORDAN, E., MACKRELL, T. N., and STONE,  
 H. H., An evaluation of the use of thio-  
 pental and decamethonium bromide for  
 rapid endotracheal intubation, 14: 255  
 Coma, incidence, diagnosis and management of  
 (Rovenstine), 6: 1  
 Commissurotomy: see Heart Surgery  
 Compliance: see under Respiration  
 Complications: see also specific techniques and sys-  
 tems  
   air embolism (case report), 10: 357  
   anesthetic  
     and their management (Mousel & others), 7:  
     69  
     of tracheo-esophageal fistula in infant (Cas-  
     sels & Yeager), 6: 268  
   aspiration of gastric contents (Weiss), 11: 102  
   breaking of Magill forcep (c.c.), 10: 511  
   of continuous caudal block in obstetrics (Brown  
   & others), 7: 355  
   dermatitis from rubber (case report), 12: 771  
   during spinal anesthesia (Bevens), 11: 350  
   embolism under anesthesia (case report), 5: 300  
   fat embolism, a case report (Doud & Roven-  
   stine), 7: 291  
   following  
     ammonium sulfate injection (Guttman &  
     Pardee), 5: 347  
     arteriogram (case report), 12: 511  
     brachial plexus block (Shaw), 10: 627  
     cleft palate surgery (Leigh & Kester), 9:  
     32  
     cardiac surgery (McQuiston), 10: 590  
     cardiac surgery (Harris), 11: 328  
     intravenous procaine (Schiff & Schiff), 10:  
     753  
   intubation  
     intubation (Shaw), 7: 416  
     intubation (Donnelly & others), 9: 490  
     intubation (Dwyer), 10: 714  
     granuloma (case report), 9: 554  
     granuloma (corr.), 12: 776  
     granuloma and other laryngeal complica-  
     tions of endotracheal anesthesia (Jack-  
     son), 14: 425  
   neurosurgery (Teplinsky & others), 10: 82  
   paravertebral injection (case report), 12: 391  
   paravertebral lumbar sympathetic block, acute  
   aseptic meningitis (Adelman & Irwin), 7:  
   422  
   spinal anesthesia  
     spinal anesthesia (case report), 10: 231  
     spinal anesthesia (edit.), 11: 254  
     spinal anesthesia (Kruel & Orth), 12: 455  
   abducens nerve  
     bilateral paralysis of the abducens and  
     hypoglossal nerves (Milowsky & Betan-  
     court), 6: 600  
   palsy following spinal anesthesia (Stein-  
   berg & Bishop), 7: 296

palsy, following spinal anesthesia (case  
 report), 9: 440  
 paresis (Kennedy & Lockhart), 13: 189  
 cervical arachnoiditis (Haynes & Smith),  
 3: 444  
 headache  
   after spinal anesthesia (Haraldson), 12:  
   321  
   etiology and treatment of (Krueger &  
   others), 12: 477  
   following lumbar puncture (Glesne), 11:  
   702  
   incidence of, with use of 27 gauge needle  
   (Cann & Wycoff), 11: 294  
   peridural and subarachnoid saline in the  
   treatment of (Rice & Dabbs), 11: 17  
   prevention of with epidural saline (Kap-  
   lin & Arrowood), 13: 103  
   treatment of with intravenous ethanol  
   (Deutsch), 13: 496  
   value of a 26 gauge needle in prophylaxis  
   of (Greene), 11: 464  
 in obstetrics (Greenhill), 11: 283  
 in obstetrics (Hingson & Hellman), 12: 749  
 laryngeal tumor after spinal anesthesia  
 (case report), 12: 129  
 Lucaine (Cull & Schotz), 11: 353  
 neurologic complications (Bergner &  
 others), 12: 717  
 pulmonary edema as a complication (case  
 report), 4: 640  
 unusual, following, report of two cases  
 (Smith), 7: 419  
 surgery, nerve injuries (Dhuner), 11: 289  
 thoracic surgery (Gruenwald & Sword), 10:  
 295  
 thoracic surgery, responsibility of the anes-  
 thetist in the prevention of (Maier), 5:  
 11  
 tonsillectomy (Zweighaft), 10: 729  
 heat stroke postoperative (Genauer), 7: 303  
 laryngeal stridor (corr.), 13: 327  
 neurologic  
   convulsions during anesthesia (Cassels &  
   others), 1: 56  
   decerebrate rigidity (case report), 4: 543  
   mental disturbances following nitrous oxide  
   anesthesia (Batten & Courville), 1: 261  
   nerve paralysis (case report), 10: 641  
   neurologic (case report), 9: 439  
   paraplegia, postoperative (case report), 11:  
   635  
   postpartum, cerebral embolism (case report),  
   11: 752  
   postanesthetic, causative factors (Courville),  
   2: 44  
 regurgitation of gastric contents (Weiss), 11:  
 102  
 respiratory  
   atelectasis  
     during  
       anesthesia (Cassels & Rapoport), 5: 174  
       massive pulmonary collapse (Pallin &  
       Goldman), 10: 325

- operations on the upper urinary tract (Faulconer & others), 7: 635
- bronchopneumonia, the anesthetists responsibility (Waters), 1: 136
- in military practice (Kaye), 5: 383
- prevention and treatment of postoperative pulmonary, with special reference to suction bronchoscopy (Eversole), 1: 72
- pulmonary edema during anesthesia, case reports (Bookhamer & Cullen), 4: 263
- relation of intubation (Gillespie & Conroy), 2: 28
- role of bacterial flora (Schapiro & Arnold), 2: 80
- urticaria following thiopental anesthesia (case report), 7: 84
- value of recovery room in prevention (Lowenthal & Russell), 12: 470
- Computers: see Analog Computers
- COMROE, J. H., and DRIPPS, R. D., Histamine-like action of curare and tubocurarine injected intracutaneously and intra-arterially in man, 7: 260
- COMROE, J. H., see DREW, J. H., *jt. auth.*
- COMROE, J. H., see DRIPPS, R. D., *jt. auth.*
- Conductive Footwear: see under Apparatus
- Congenital spastic disease, treatment, intravenous procaine (Graubard & Peterson), 10: 174
- CONN, H. L., see PITTINGER, C. B., *jt. auth.*
- Connectors: see Apparatus
- CONNER, E. H., and DRIPPS, R. D., The use of Lucaine in the study of spinal anesthesia, 11: 686
- CONNER, E. H., see PRICE, H. L., *jt. auth.*
- CONROY, L., see LEVY, S., *jt. auth.*
- CONROY, W. A., and SEEVERS, M. H., Studies in carbon dioxide absorption, 4: 160
- CONROY, W. A., CASSELS, W. H., and STODSKY, B., The Chicago Keysort anesthesia record, 9: 121
- CONROY, W. A., see GILLESPIE, N. A., 2: *jt. auth.*
- CONVERSE, J. G., LANDMESSER, C. M., and HARMEL, M. H., The concentration of Pontocaine hydrochloride in the cerebrospinal fluid during spinal anesthesia, and the influence of epinephrine in prolonging the sensory anesthetic effect, 15: 1
- CONVERSE, J. G., LANDMESSER, C. M., and HARMEL, M. H., Electrocardiographic changes during extubation. A study of electrocardiographic patterns during endotracheal anesthesia including those seen during intubation, endotracheal suction, and particularly extubation, 13: 163
- CONVERSE, J. G., see BOBA, A., *jt. auth.*
- CONVERSE, J. G., see COBB, S., *jt. auth.*
- CONVERSE, J. G., see LANDMESSER, C. M., *jt. auth.*
- Convulsions
- clonus (paraplegic), intrathecal alcohol for (Evangelou & Adriani), 16: 594
- during
- anesthesia (Cassels & others), 1: 56
- general anesthesia, experimental results with neurotropic streptococci from nasopharynxes of patients (Rosenow & others), 6: 12
- drug induced, effect of high oxygen atmosphere (Cotten & Walton), 12: 491
- ether
- controlled by curare (Greenfield), 7: 299
- experimental production (Owens & others), 18: 583
- fetal anoxic, experimental study (Fender & others), 7: 8
- following
- Demerol intravenously (Allen & others), 10: 164
- pontocaine intraspinally (case report), 10: 231
- COOK, E. V., see CULLEN, S. C., *jt. auth.*
- COOK, E. V., see MCQUISTON, W. O., *jt. auth.*
- COOLEY, D. A., see COONS, R. E., *jt. auth.*
- COOLEY, D. A., see KEATS, A. S., *jt. auth.*
- COON, J. M., see JACOBY, J. J., *jt. auth.*
- COONS, R. E., KEATS, A. S., and COOLEY, D. A., Significance of electroencephalographic changes occurring during cardiopulmonary bypass, 20: 804
- COOPER, B. M., SLOCUM, H. C., and ALLEN, C. R., Tetraethylthiuram disulfide (Antabuse) and the anesthetic agents, 14: 29
- COOPER, B. M., see ALLEN, C. R., *jt. auth.*
- COOPER, B. M., see SLOCUM, H. C., *jt. auth.*
- COOPER, D. Y., and LAMBERTSON, C. J., Effect of changes in tidal volume and alveolar  $pCO_2$  on physiological dead space, 18: 160
- COOPER, M. N., see RUMBLE, L., *jt. auth.*
- COPE, O., see SARNOFF, S. J., *jt. auth.*
- Copper Kettle: see under Apparatus
- COPPOCK, W. J., see HAUGEN, F. P., *jt. auth.*
- CORDER, V. W., see HELLIJAS, V., *jt. auth.*
- Cordotomy: see Spinal Cord
- Coramine, effect on coronary circulation (Eckenhoff), 11: 168
- CORSSEN, G., EGGERS, G. W. N., GADERMANN, E., GIESE, M., and ALLEN, C. R., Myocardial irritability: pharmacodynamic control by mepazine (Pacatal) in dogs, 19: 733
- CORSSEN, G., see EGGERS, G. W. N., *jt. auth.*
- Cortex: see under Brain
- Cortisone (Cortone; compound E) problems involving anesthesia (Lundy), 14: 376
- COTTEN, M. DE V., and BAY, E., Comparison of the cardiovascular properties of a new nonbarbiturate intravenous anesthetic agent with those of thiopental, 17: 103
- COTTEN, M. DE V., BROWN, J. M., and KRONEN, P. S., Heart force responses to pressor amines during hypotension produced by hexamethonium, 15: 126
- COTTEN, M. DE V., and WALTON, R. P., Effects of high oxygen atmospheres on drug induced convulsions, 12: 491
- CoTui, F., BURSTEIN, C. L., and RUGGIERO, W. F., Total spinal anesthesia: a preliminary report, 1: 280

- Cough reflex  
     comparison of thiopental, lidocaine and meperidine as depressants of (abs.), **20: 186**  
     effect of procaine on (Taylor & others), **11: 185**  
     test for determination of level of spinal anesthesia (c.c.), **10: 639**
- COUGHLIN, J. B., see BREHM, W. F., jt. auth.
- COURVILLE, C. B., Ether anesthesia and cerebral anoxia, **2: 44**
- COURVILLE, C. B., Problem of serious complications of anesthesia (edit.), **2: 686**
- COURVILLE, C. B., see BATTEN, C. T., jt. auth.
- CRANDELL, D. L., and PAGE, W. G., Re-evaluation of paravertebral lumbar sympathetic block in treatment of peripheral vascular disease, **18: 454**
- CRANDELL, W. B., see MATHIEU, T. J., jt. auth.
- Cranium, intracranial tension, influence of anesthetic drugs and techniques (Stephen & others), **15: 365**
- CRAWFORD, E. J., and GAUDINO, M., Changes in cellular fluid volume, renal function, and electrolyte excretion induced by intravenous saline solution and by short periods of anesthesia, **13: 374**
- CRAWFORD, O. B., Comparative qualities of three new local anesthetic drugs, Xylocaine, Cyclaine, and Pravocaine, **14: 278**, correction, **14: 623**
- CRAWFORD, O. B., The technic of continuous peridural anesthesia for thoracic surgery, **14: 316**
- CRAWFORD, O. B., BRASHER, C., and BUCKINGHAM, W. W., Peridural anesthesia for thoracic surgery, **18: 241**
- CRAWFORD, O. B., and CHESTER, R. V., Caudal anesthesia in obstetrics: a combined procaine-Pontocaine single injection technic, **10: 473**
- CRAWFORD, O. B., OTTOSEN, P., BUCKINGHAM, W. W., and BRASHER, C. A., Peridural anesthesia in thoracic surgery, a review of 677 cases, **12: 73**
- CRAWFORD, O. B., see TILLMAN, W. W., jt. auth.
- CREPPS, W., see BONICA, J. J., jt. auth.
- CREHAN, J. P., see NICHOLSON, M. J., jt. auth.
- CRETEUR, C. A. J., see LITTLE, D. M., jt. auth.
- CRISCUOLO, D., LEE, W. L., TARROW, A. B., and WARD, R. J., Rapid determination of diethyl ether levels in blood, **20: 593**
- CROCKER, J. S., and VANDAM, L. D., Concerning nausea and vomiting during spinal anesthesia, **20: 587**
- CROSBY, W. H., The problem of oozing during surgery, **20: 685**
- CROSS, F. S., see MENDELSON, D., jt. auth.
- CROW, J. B., see GREEN, H. D., jt. auth.
- CRUMPTON, C. W., see MAXWELL, G. M., jt. auth.
- CRUMPTON, C. W., see MURPHY, Q., jt. auth.
- Crush syndrome (case report), **18: 342**
- Cuffs: see under Apparatus, Endotracheal Cuff
- CULL, W. A., and SCHOTZ, S., Some clinical observations on Lucaine, **11: 353**
- CULLEN, M., see BERNSTINE, M. L., jt. auth.
- CULLEN, S. C., Clinical and laboratory observations on the use of curare during inhalation anesthesia, **5: 166**
- CULLEN, S. C., Clinical practice with muscle relaxants, **20: 530**
- CULLEN, S. C., Curare: its past and present, **8: 479**
- CULLEN, S. C., What price tranquilization (edit.), **20: 697**
- CULLEN, S. C., McQUISTON, W. O., and PETERSON, V. W., Nitrous oxide anesthesia for thoracoplasty, **2: 310**
- CULLEN, S. C., and SANTOS, C. C., Analgesia for postoperative pain without respiratory depression, **16: 674**
- CULLEN, S. C., WEIR, E. F., and COOK, E., Rationale of oxygen therapy during fever therapy, **3: 123**
- CULLEN, S. C., see BENNETT, H. A., jt. auth.
- CULLEN, S. C., see BOOKHAMER, J. W., jt. auth.
- CULLEN, S. C., see BROTMAN, M., jt. auth.
- CULLEN, S. C., see CARRON, H., jt. auth.
- CULLEN, S. C., see CHRISTENSEN, E. M., jt. auth.
- CULLEN, S. C., see GROSS, E. G., jt. auth.
- CULLEN, S. C., see HAMILTON, W. K., jt. auth.
- CULLEN, S. C., see HESSELSCHWERDT, D. W., jt. auth.
- CULLEN, S. C., see McQUISTON, W. O., jt. auth.
- CULLEN, S. C., see PITTINGER, C. B., jt. auth.
- CULLEN, S. C., see PRICKETT, M. D., jt. auth.
- CULLEN, S. C., see RENCE, W. G., jt. auth.
- CULLEN, S. C., see SEVERINGHAUS, J. W., jt. auth.
- CULLEN, S. C., see WATLAND, D. C., jt. auth.
- CULLEN, S. C., see WILKINS, D. S., jt. auth.
- CULLEN, W. G., see GRIFFITH, H. R., jt. auth.
- CULLEN, W. G., see ROBSON, J. G., jt. auth.
- CUMMINGS, J. R., and HAYS, H. W., Cardiovascular studies of adrenergic and ganglionic stimulating drugs administered during cyclopropane, **17: 314**
- Curare: see also under Muscles, relaxing agents; d-Tubocurare; Curare-like Substances; specific drugs  
     abdominal surgery, in seriously injured patients, use of (Doud & Shortz), **7: 522**  
     action  
         of, on blood pressure and smooth muscle of the small intestine (Gross & Cullen), **6: 231**  
         on the motility of noninnervated smooth muscle and its relationship to acetylcholine (Ferguson), **13: 615**  
     adjustment of statements regarding (corr.), **9: 320**  
     antagonism by Eserine and Neostigmine (Burke & others), **9: 251**  
     antagonist, clinical investigation of R01-5733 (abs.), **20: 130**  
     assay (Strayer), **11: 599**  
     bronchoconstrictor effect  
         and hypotension (Landmesser), **8: 506**



- quantitative evaluation of (Landmesser & others), 13: 275
- carotid sinus reflex, failure of, to block hypersensitive (Clark), 16: 716
- cerebral effects, lack of (Smith & others), 8: 1
- and curare-like compounds: A review (Robbins & Lundy), 8: 253
- depot, advantages of preoperative use of (Fulmer), 13: 370
- during cardiac surgery (Harris), 11: 328
- early use of (corr.), 10: 766
- effect on
- autonomic reflexes (Burstein & others), 11: 409
  - blood coagulation time (Ting & others), 13: 594
  - liver (Hugill), 11: 567
- ether convulsions controlled with (Greenfield), 7: 299
- Evipal sodium with, for intubation (Volpitto & Benton), 11: 164
- for infants and children (Smith), 8: 176
- histamine-like action of in man (Comroe & Dripps), 7: 260
- hypotensive and bronchoconstrictor action of (Landmesser), 8: 506
- misconceptions regarding discovery, development and present form of (Gill), 7: 14
- lethal dose of, with some observations on the pathology produced (Cole), 7: 190
- nitrous oxide
- anesthesia for lengthy operations (Harroun & others), 7: 24
  - cyclopropane anesthesia, a review of 200 cases (Holaday), 7: 426
  - Tensilon with (Morris & others), 14: 117
  - for thoracoplasty (Grief & others), 9: 637
  - use of with Pentothal-nitrous oxide-oxygen anesthesia (Brody), 6: 381
- its past and present (Cullen), 8: 479
- with pentobarbital sodium, for endotracheal intubation (Carron & others), 9: 11
- Pentothal
- cocaine combination, for suspension laryngoscopy (Davis), 11: 245
  - mixture (Baird), 8: 75
  - use in 160 cases (Baird & others), 9: 141
  - with Pentothal (Paulson & others), 10: 387
  - precipitation of by (c.c.), 6: 307, 531
- placental transmission of *d*-tubocurarine chloride from maternal to fetal circulation in dogs (Pittinger & Morris), 14: 238
- preparations, a clinical evaluation of (Hessel-schwerdt & others), 12: 14
- prolongation of action of, with gelatin-dextrose mixtures (Heringman & others), 9: 506
- with procaine analgesia (Isenberger), 10: 343
- use of
- in anesthesia (Cole), 6: 48
  - in anesthesia (Whitacre & Fisher), 6: 124
  - in general anesthesia (Griffith & Johnson), 3: 418
- tetanus
- in the management of systemic (Van Bergen & Buckley), 13: 599
  - in oil, in treatment of (Binger and Deunich), 11: 199
  - for tonsillectomy adult (c.c.), 6: 626
- torticollis
- case report, 11: 751
  - for treatment of (corr.), 12: 517
- Curare-like Substances
- bronchoconstrictor and hypotensive action of (Landmesser), 8: 506
  - review (Robbins & Lundy), 8: 252
- CURRY, G. W., and HALE, D. E., Statistical analysis of anesthesia at the Cleveland Clinic, 10: 101
- CURTIS, J. K., see SIEBECKER, K. L., jt. auth.
- CUTRIGHT, E. G., Why keep an anesthetic record? (edit.), 14: 311
- CUSHING, I. E., see MILLER, W. F., jt. auth.
- CUSHING, I. E., see WU, N., jt. auth.
- CUTLER, R. P., see FRANCIS, L., jt. auth.
- CWIK, J. C., see LUND, P. C., jt. auth.
- Cyclaine: see Hexylcaine Hydrochloride
- Cyclizine Hydrochloride (Marezine Hydrochloride)
- antiemetic efficacy of (Bellville & others), 20: 761
  - control of postoperative vomiting with (Moore & others), 17: 690
  - evaluation of, in lowering incidence of postoperative nausea and vomiting (Tillman & others), 17: 112
  - for postanesthetic nausea, retching and vomiting (Bonica & others), 19: 532
- Cyclobutane
- anesthetic properties (Krantz & others), 9: 594
  - anesthetic properties (Vandam & Dripps), 16: 48
  - further study of (Carr & others), 10: 469
- Cyclohexamine (N-ethyl-1-phenylcyclohexamine monohydrochloride) new intravenous agent (Lear & others), 20: 330
- Cyclopal sodium, (cyclopentenylalyl) barbiturate) pharmacology of (Dille & Kipple), 4: 135
- Cyclopentane, as an anesthetic agent (Virtue), 10: 318
- Cyclopropane
- acid-base balance during (Stormont & others), 3: 369
  - air, oxygen anesthesia (Haas & Hibshman), 1: 31
- anesthesia
- blood, ammonia levels during (Goldberg & Hamilton), 20: 836
  - cardio-circulatory effects of muscle relaxants during (abs.), 20: 131
  - cardiovascular effects of continuous intravenous infusion of norepinephrine, epinephrine and Neo Synephrine during (Deterling & others), 15: 11
  - circulatory effect of chlorpromazine before and during (Etsten & Li), 18: 203



- effect of  
 Arfonad on anesthetic requirements during  
 (Bellville & Artusio), 17: 347  
 on cardiac output and related hemodyn-  
 amics (Li & Etsten), 18: 15  
 controlled respiration on circulation during  
 (Etsten & others), 16: 365  
 electrocardiographic effects of intravenous ad-  
 ministration of neostigmine and atropine  
 during (Jacobson & Adelman), 15: 407  
 electroencephalographic frequency spectrum  
 analysis during (Bellville & Artusio), 17:  
 653  
 heart sounds during (Rence & others), 17:  
 26  
 increase in central venous and arterial blood  
 pressures during (Price & others), 14: 1  
 measurements of electrical and mechanical  
 events of cardiac cycle during (abs.), 20:  
 132  
 at normal and elevated end-expiratory carbon  
 dioxide tensions, cardiac rate and rhythm  
 during steady levels of (Lurie & others),  
 19: 457  
 respiratory responses to carbon dioxide tran-  
 sients during (Cobb & others), 19: 359  
 review (Guedel), 1: 13  
 sympathomimetic effect of cocaine in produc-  
 tion of cardiac arrhythmias during (Evan-  
 gelou & Adriani), 16: 1017  
 arrhythmias: see also cyclopropane-epinephrine  
 action of procaine amide, on cardiac irregu-  
 larities during (Morris and Haid), 12: 328  
 arrhythmias (Thienes & others), 2: 611  
 bradycardia during (case report), 4: 204  
 during, mechanism of (Stutzman & Pettinga),  
 10: 374  
 influence of the autonomic nervous system  
 upon (Allen & others), 6: 261  
 the mechanism of production with high con-  
 centrations (Lee & others), 4: 487  
 carbon tetrafluoride with, to prevent explosions  
 (Jones & others), 11: 562  
 cardiac surgery, anesthesia for (McQuiston),  
 10: 592  
 cardiovascular studies of adrenergic and gang-  
 lionic stimulating drugs administered dur-  
 ing cyclopropane (Cummings & Hays), 17:  
 314  
 clinical evaluation of (Griffith), 12: 109  
 combined with regional anesthesia for abdom-  
 inal relaxation (McCoskey), 1: 26  
 determination in blood, analysis of gases in  
 blood with mass spectrometer, total extract  
 (Possati & others), 15: 196  
 effect of  
 aliphatic sympathomimetic amines on cardiac  
 automatic tissue during (Murphy &  
 others), 11: 437  
 blood pressure rise on cardiac irregularities  
 (Murphy & others), 10: 416  
 intrathecal vasoconstrictors, on cardiac autom-  
 aticity during (Howard & others), 11: 694  
 and morphine upon cardiovascular function  
 in dog (Greisheimer & others), 18: 196  
 plus hypercarbia on blood clotting (abs.),  
 20: 128  
 in shocked rats (Virtue & others), 17: 47  
 effect on  
 blood-epinephrine (Youmans & others), 4: 31  
 blood glucose levels (Youmans & others), 4:  
 31  
 blood pressure stroke-volume and heart size  
 of the dog (Brace & others), 2: 261  
 blood sugar (Johnson), 10: 379  
 bronchi (Adriani & Rovenstine), 4: 253  
 heart, during endotracheal intubation (Peters  
 & others), 12: 673  
 heart, work capacity (Moe & others), 10: 706  
 isolated auricle of the cat (Acierno & Di-  
 Palma), 12: 567  
 liver (Hugill), 11: 567  
 myocardium (Fisher & others), 12: 19  
 effect on peripheral blood flow in man (Ab-  
 ramson), 2: 186  
 peripheral vascular homeostasis (Hershey &  
 Zweifach), 11: 150  
 uterine motility (Howard & others), 10: 151  
 electrocardiographic studies  
 during endotracheal intubation (Burstein &  
 others), 12: 412  
 during induction (Virtue & Pierce), 12: 442  
 epinephrine  
 arrhythmias  
 in dogs by phenothiazine derivatives, sup-  
 pression of (Winbury & others), 19: 743  
 effect of  
 dibenamine on (McMillen & others), 11:  
 8  
 dibenamine on (Nickerson & Smith), 10:  
 562  
 ether on (Greisheimer & others), 15: 51  
 quinidine on (Hoggens & others), 11:  
 623  
 protection from by various drugs (Allen &  
 others), 2: 503  
 induced cardiac irregularities in dog (Mor-  
 ris & others), 14: 153  
 and norepinephrine in initiation of ventricular  
 arrhythmias by carbon dioxide inhalation  
 (Price & others), 19: 619  
 response of the digitalized heart (Stutzman &  
 others), 3: 644  
 ventricular fibrillation  
 failure of procaine to reverse (Stutzman &  
 others), 6: 57  
 laboratory studies on the prophylaxis and  
 treatment of (Burstein & others), 1: 167  
 mephentermine as antifibrillatory drug  
 against (Lynch & others), 16: 632  
 ventricular tachycardia  
 failure of barbiturates to prevent (Orth &  
 others), 2: 623  
 further studies (Stutzman & others), 8: 579  
 prevention by diethyl ether (Stutzman &  
 others), 3: 259  
 production of (Allen & others), 1: 158  
 explosion, prevention of by dilution with helium  
 (Jones & Thomas), 2: 138

- gas analyzer for rapid estimation (Linde & Price), 19: 757
- infrared analysis for carbon dioxide in respired gases containing (Linde & Lurie), 20: 45
- insulin shock during (Papper & others), 3: 660
- mechanism of intestinal inhibition by (Youmans & others), 3: 303
- neuromuscular effects of (Watland & others), 18: 883
- neurosurgery, anesthesia with (Teplinsky & others), 10: 82
- nitrous oxide and curare, a review of 200 cases (Holaday), 7: 426
- and oxytocics, effect of, on cardiac rhythm in parturient woman (Ichiyangi & Morris), 20: 669
- Pituitrin with (Parsloe & others), 11: 76
- positive inotropic action of, on intercostal muscle *in vitro* and modification by *d*-tubocurarine (Sabawala & Dillon), 19: 473
- postanesthetic hypotension following, relationship to hypercapnia (Buckley & others), 14: 226
- prolonged administration of (case report), 6: 536
- a report of the results in 41,690 administrations (Taylor), 2: 641
- roentgen therapy and (Foster), 17: 735
- "shock," the immediate decrease in blood pressure seen at the conclusion of cyclopropane anesthesia (Dripps), 8: 15
- thoracic compliance in anesthetized subject using (abs.), 19: 116
- thoracic surgery, anesthesia for (Gruenwald & Sword), 10: 295
- value in the management of patients with recent hemorrhage (Hershey & Rovenstine), 5: 149
- Cylinders, apparatus to prevention of mix-up (c.c.), 5: 526
- Cyprome ether: see Ether, cyclopropyl methyl
- Cypreth ether: see Ether, cyclopropyl ethyl
- DABBS, C. H., see KAMSLER, P. M., jt. auth.
- DABBS, C. H., see RICE, G. G., jt. auth.
- DAMARJIAN, E., Pentothal anesthesia, 6: 402
- DANCE, C. L., JR., BOOZER, J., NEWMAN, W., and BURSTEIN, C. L., Electrocardiographic studies during endotracheal intubation: VII. Evipal sodium induction, 17: 730
- Daptazole: see Diaminophenylthiazole
- DAVENPORT, H. T., ARFEL, G., and SANCHEZ, F. R., The electroencephalogram in patients undergoing open heart surgery with heart-lung bypass, 20: 674
- DAVID, N. A., see KIRCHHOF, A. C., jt. auth.
- DAVIS, D. A., The induction of anesthesia for suspension laryngoscopy with cocaine, sodium Pentothal and curare, 11: 245
- DAVIS, D. A., ELLIS, F. C., REESE, N. O., and GROSSKREUTZ, D. C., The prolonged effects of succinylcholine and some possible explanations for these phenomena, 16: 333
- DAVIS, D. A., see SUGIOKA, K., jt. auth.
- DAVIS, D. A., see TAIT, C. A., jt. auth.
- DAVIS, D. A., see THORNTON, W., jt. auth.
- DAVIS, D. L., see FOLDES, F. F., jt. auth.
- DAVIS, E. H., and KRANTZ, J. C., JR., Anesthesia. XII. Studies with isopropenyl vinyl ether (propethylene ether) in man, 5: 159
- DAVIS, E. H., see KRANTZ, J. C., JR., jt. auth.
- DAVIS, F. E., see WATROUS, W. G., jt. auth.
- DAVIS, H. S., COLLINS, W. F., RANDT, C. T., and DILLON, W. H., The effect of gaseous anesthetic agents on evoked central nervous system responses (abs.), 18: 160
- DAVIS, H. S., COLLINS, W. F., RANDT, C. T., and DILLON, W. H., Effect of anesthetic agents on evoked central nervous system responses: gaseous agents, 18: 634
- DAVIS, H. S., DILLON, W. H., COLLINS, W. F., and RANDT, C. T., The effect of volatile agents and muscle relaxants on evoked central nervous system responses in the cat (abs.), 19: 98
- DAVIS, H. S., DILLON, W. H., COLLINS, W. F., and RANDT, C. T., The effect of anesthetic agents on evoked central nervous system responses: muscle relaxants and volatile agents, 19: 441
- DAVIS, H., and KING, W. R., Densities of cerebrospinal fluid of human beings, 15: 666
- DAVIS, H., and KING, W. R., Densities of common spinal anesthetic solutions at body temperature, 13: 184
- DAVIS, M. T., see GREENE, N. M., jt. auth.
- DAVIS, N., The phylogenetic planes in anesthesia, 14: 299
- DAWSON, R. E., see OWENS, G., jt. auth.
- Dead Space: see Respiration
- Deaths
- anesthetic
- first death from, with some remarks suggested by it in the appraisal of new anesthetic agents (Beecher), 2: 443
- pathology of (edit.), 10: 105
- role of muscle relaxants in (Dripps), 20: 542
- simulated, pneumoencephalography and air embolism (Jacoby & others), 20: 336
- "clinical," electrical activity in heart after (Sabawala & others), 18: 236
- deaths (Burnham), 544 (edit.), 15: 559
- operating room (Bishop), 7: 651
- operating room (Waters & Gillespie), 5: 113
- sudden, during cyclopropane-ether anesthesia following the administration of epinephrine (Adelman), 2: 657
- DEBACKER, L. J., KIENZLE, W. K., and KEASLING, H. H., A study of stellate ganglion block for pain relief, 20: 618
- DEBAKEY, M. E., see MORRIS, C. C., JR., jt. auth.
- DE BEER, E. J., The chemistry of the muscle relaxants, 20: 416
- DE BEER, E. J., see WNUCK, A. L., jt. auth.
- DEBOER, B., Factors affecting Pentothal anesthesia in dogs, 8: 375
- DEBOER, B., and EDERSTROM, H. E., Lethal hypothermia in dogs of various ages, 7: 518

- Decamethonium Bromide (C10; Sincurine): see also Muscle Relaxants  
clinical evaluation (Spencer & Coakley), 16: 125; (corr.), 16: 296  
combined with ultrashort acting barbiturates for intratracheal intubation (Volpitto), 12: 648  
depolarizing neuromuscular blocking agents and intraocular pressure *in vivo* (Dillon & others), 18: 439  
in endotracheal intubation (Bailey & Murphy), 12: 63  
for muscular relaxation (Harris & Dripps), 11: 215  
use, and thiopental for rapid endotracheal intubation (Colon-Yordan & others), 14: 255  
with thiopental and nitrous oxide-oxygen in abdominal surgery (Foldes & Machaj), 12: 366
- DeCrutis, V. L., and FIERO, F. E., Motor driven continuous spinal anesthesia with Jerzy glass "Injectomat," 12: 708
- Decontamination of anesthesia apparatus (Gross), 16: 903
- De Gosse, J. J., see McCune, K., jt. auth.
- De Graff, A. C., see Burstein, C. L., jt. auth.
- DeKornfeld, T. J., Park, C. J., and Safar, P., Effects of muscle relaxants on the lungs and circulation in man (abs.), 20: 122
- DeKornfeld, T. J., and Siebecker, K. L., Changes in oxygen saturation during bronchoscopies, 18: 466
- Delgado, E., see Steven, R. J. M., jt. auth.
- Delgado, J. M. R., see Brazier, M. A. R., jt. auth.
- Delvinal Sodium (Vinbarbital)  
cross tolerance, with pentobarbital (Carmichael), 9: 532  
preanesthetic use (Lorhan), 5: 370  
toxicity, seasonal variations (Carmichael), 9: 418
- Demerol: see Meperidine
- DeMeyer, M., see Gruber, C. M., jt. auth.
- Demorest, H. L., see Buckley, J. J., jt. auth.
- Denitrogenation: see under Nitrogen
- Denson, J. S., and Joseph, S. I., Cardiac rhythm and endotracheal intubation—a clarification, 15: 650
- Denstedt, O. F., Osborne, D. E., Stansfield, H., and Rochlin, I., The survival of preserved red cells after transfusion, 5: 237
- Denstedt, O. F., see Hosein, E. A., jt. auth.
- Dent, S. J., Ramachandra, V., and Stephen, C. R., Postoperative vomiting: incidence, analysis and therapeutic measures in 3,000 patients, 16: 564
- Dent, S. J., Wilson, W. P., and Stephen, C. R., Clinical experiences with Viadril, 17: 672
- Dent, S. J., see Fabian, L. W., jt. auth.
- Dent, S., see Stephen, C. R., jt. auth.
- Dente, G. A., see Abajian, J., jt. auth.
- Dentistry  
anesthesia (corr.), 10: 234  
for in the presence of cautery and diathermy (Elliot & Arrowood), 6: 32
- extractions under lidocaine anesthesia, severe methemoglobinemia following (c.c.), 17: 204
- nitrous oxide, oxygen and trichloroethylene for office dental anesthesia (Bergner & others), 15: 696
- Pentothal anesthesia for (Hubbell), 4: 174
- De Polo, E. J., see Tamerin, J. A., jt. auth.
- Dermatitis  
after metycaine (c.c.), 10: 512  
allergic, due to rubber (c.c.), 14: 211
- Dermalor, rectal element for (c.c.), 12: 122
- De Roeth, A., see Schwartz, H., jt. auth.
- Derrick, W. S., and Smart, R. C., Observations on the carbon dioxide absorption properties of monoethanolamine, 18: 551
- Derrick, W. S., see Maloney, J. V., jt. auth.
- Derrick, W. S., see Mathews, W. A., jt. auth.
- Derrick, W. S., see Smart, R. C., jt. auth.
- Desoxyephedrine Hydrochloride  
clinical use (Poe & Karp), 10: 484  
a comparison with other vasopressors (Yeakel & others), 9: 605
- Detergents: see also under names of specific detergents  
effects of, intrathecally (c.c.), 18: 143  
use of Alevaire and spreading factor as aids in pulmonary expansion in resuscitation of newborn infant (Bloxsom), 16: 41
- Deterling, R. A., Jr., Nagi, S. H., Laragh, J. H., and Papper, E. M., The cardiovascular effects of continuous intravenous infusion of norepinephrine, epinephrine and neosynephrine during cyclopropane and ether anesthesia in the dog, 15: 11
- Deuterocarbons, anesthesia with and cardiac automaticity (Carr & others), 12: 230
- Deutsch, E. V., Treatment of postspinal headache with intravenous ethanol: a preliminary report, 13: 496
- Deutsch, E. V., see Cappe, B. E., jt. auth.
- Devine, J. C., Hamilton, W. K., and Dittinger, C. B., Respiratory studies in man during Fluothane anesthesia, 19: 11
- Devloo, R. A., see Jones, C. S., jt. auth.
- Devnich, G., see Binger, G. G., jt. auth.
- De Vries, A., see Milwidsky, H., jt. auth.
- DeWald, W., see Carter, A. B., jt. auth.
- DeWeese, J. A., see Colgan, F. J., jt. auth.
- Dextran, reaction in man from infusion (Tarrow & Pulaski), 14: 359
- Dextrose  
gelatin, to prolong curare (Heringman & others), 9: 506  
with pontocaine-ephedrine for spinal anesthesia (Potter & Whitacre), 7: 499
- Dhunén, K. G., Nerve injuries following operations: a survey of cases occurring during a six-year period, 11: 289
- Diabetes  
complication during anesthesia (Peterson & others), 4: 625  
effect on choice of anesthetics (Mousel), 11: 495

- insulin shock, during anesthesia (Papper & others), 3: 660  
 "juvenile" (fulminant), anesthetic management during hypophysectomy for (Anderson & Kinsell), 16: 375
- Diagnosis**  
 headache (atypical) of cervical origin by use of cervical plexus block (Pentecost & Adriani), 16: 726  
 of clotting defects, clot observation test for (Poe), 20: 825
- Diaminophenylthiazole (Daptazole)** effects of morphine compared with mixture of morphine and (Fraser & others), 18: 531
- Diaphragm**  
 electromyography of (abs.), 20: 124  
 paralysis of (Cassels & Gittelson), 9: 48  
 paralysis of, during brachial plexus anesthesia (Shaw), 10: 627
- Dibenamine**  
 effect on cyclopropane-epinephrine arrhythmias (McMillen & others), 11: 8  
 effect on pain threshold (Gross & other), 9: 459  
 epinephrine arrhythmias protection against (Nickerson & Smith), 10: 562  
 protection by, against spontaneous arrhythmias during cyclopropane anesthesia (Nickerson & Brown), 12: 216
- Dibucaine (Nupercaine):** see also under Anesthesia, spinal, dibucaine  
 for abdominal perineal resection (Wilkinson), 3: 437  
 cytotoxicity (Gittelson), 10: 202  
 dextrose solution for spinal anesthesia (Sankey & Whitacre), 2: 203  
 dextrose, spinal anesthesia with (Roman & Adriani), 10: 270  
 dilutions of greater than 1:1500 for spinal anesthesia (Fisher & Whitacre), 8: 584  
 hyperbaric, for proctological surgery (Dye & Vaughn), 10: 494  
 hypobaric spinal anesthesia with (Snyder), 12: 303  
 vasoconstrictors with, effect on the duration of spinal anesthesia (Bray & others), 10: 40
- DICKLER, D.,** see KOTKIN, S., jt. auth.
- Diet,** effect on dose of paraldehyde (Phillips & others), 5: 287
- Diethylaminoethanol,** effect during intubation electrocardiographic study (Burstein & others), 12: 411
- Diethyl Ether:** see Ether, diethyl
- DIETRICH, W. C.,** and BEUTNER, R., A search for the least irritant topical anesthetic, 7: 255
- Diffusion Respiration:** see Respiration
- DiGiovanni, A. J.,** and DRIPPS, R. D., Abnormal motor movements during divinyl ether anesthesia, 17: 353
- Digitalis**  
 effect on heart during cyclopropane-epinephrine (Stutzman & others), 3: 644  
 operative course of digitalized surgical patients (Powell), 14: 159  
 preoperative use (Harken), 11: 321
- Dihydro-beta-erythrodine,** a new curarizing agent for the production of muscular relaxation during anesthesia and surgery (Dripps & Sergeant), 8: 241
- Dihydrocodeine**  
 effect upon respiration and circulation (Eckenhoff & others), 18: 891  
 studies of new potent analgesics (abs.), 18: 168
- Dihydroergotamine methane-sulfonate,** effect on cyclopropane-epinephrine arrhythmias (Nickerson & Smith), 10: 562
- Dilaudid,** intravenously for analgesia (Betlach), 2: 170
- DILLE, J. M.,** and KIPPLE, H. M., Pharmacology of sodium cyclopentenylallyl barbiturate (Cyclopal), 4: 135
- DILLE, J. M.,** see HORITA, A., jt. auth.
- DILLE, J. M.,** see HURLBUT, D. B., jt. auth.
- DILLON, J. B.,** SABAWALA, P. B., TAYLOR, D. B., and GUNTER, R., Action of succinylcholine on extraocular muscles and intraocular pressure, 18: 44
- DILLON, J. B.,** SABAWALA, P. B., TAYLOR, D. B., and GUNTER, R., Depolarizing neuromuscular blocking agents and intraocular pressure *in vivo*, 18: 439
- DILLON, J. B.,** and WYCOFF, C. C., Continuous spinal anesthesia: modification for control of dosage, 7: 631
- DILLON, J. B.,** see BOONE, J. D., jt. auth.
- DILLON, J. B.,** see SABAWALA, P. B., jt. auth.
- DILLON, W. H.,** see DAVIS, H. S., jt. auth.
- Diothane,** cytotoxicity (Gittelson), 10: 202
- DI PALMA, J. R.,** and HITCHCOCK, P., Neuro-muscular and ganglionic blocking action of thiamine and its derivatives, 19: 762
- DI PALMA, J. R.,** see ACIERNO, L. J., jt. auth.
- Diseases:** see under names of specific diseases
- Disinfection**  
 chemical sterilization of instruments in collapsible bag (c.c.), 18: 132  
 heat sterilization of spinal anesthesia ampuls (abs.), 18: 164  
 simple sterilization of polyethylene tubing (corr.), 17: 830
- Diisopropylfluorophosphate,** effect on pain threshold (Gross & others), 9: 459
- Divinyl Ether:** see Ether, divinyl
- DOBKIN, A. B.,** The effect of Fluothane on acid-base balance, 20: 10
- DOBKIN, A. B.,** GILBERT, R. G. B., and MELVILLE, K. I., Chlorpromazine: review and investigation as a premedicant in anesthesia, 17: 135
- DOBKIN, A. B.,** see BUCKLEY, J. J., jt. auth.
- DOBKIN, A. B.,** see VAN BERGEN, F. H., jt. auth.
- DODD, R. B.,** see LIANG, H. S., jt. auth.
- DODD, R. B.,** see SANTIAGO, M., jt. auth.
- DOERR, J. C.,** see TAYLOR, H. E., jt. auth.
- DODGE, H. C.,** see SCHOTZ, S., jt. auth.
- DOGLIOTTI, A. M.,** and CIOCATTO, E., Method of differential block in pain relief, 16: 623
- Dolitrone**  
 in management of patients with burns (c.c.), 18: 143

- new intravenous anesthetic (Tait & others), 17: 536
- new nonbarbiturate intravenous anesthetic agent, comparison of cardiovascular properties with thiopental (Cotten & Bay), 17: 103
- Dolophine (see Methadon)
- Dolorimeter, experiences with Hardy-Wolff-Goodell dolorimeter (Haugen & Livingstone), 14: 109
- DONALD, D. E., see MOFFITT, E. A., jt. auth.
- DONNELLY, W. A., GROSSMAN, A. A., and GREM, F. M., Local sequelae of endotracheal anesthesia as observed by examination of one hundred patients, 9: 490
- Doriden: see Glutethimide
- Dormison: see Barbiturates, ethinyl
- DORNETTE, W. H. L., see BRECHNER, V. L., jt. auth.
- DOUD, E. A., and ROVENSTINE, E. A., Changes in the velocity of blood flow during spinal anesthesia, 1: 82
- DOUD, E. A., and ROVENSTINE, E. A., Fatal fat embolism: a case report, 7: 291
- DOUD, E. A., and SHORT, G., Use of curare for abdominal surgery in seriously injured patients, 1: 522
- DOWLING, M. D., see BELLVILLE, J. W., jt. auth.
- DOWNING, D. F., see KEOWN, K. K., jt. auth.
- Dramamine
- Dramamine (corr.), 12: 257
- effect on nausea (corr.), 10: 767
- parenteral use of to control postoperative vomiting (Moore & others), 13: 354
- use in control of postoperative nausea and vomiting (Hume & Wilner), 13: 302
- DRAPER, W. B., and WHITEHEAD, R. W., Diffusion respiration in the dog anesthetized by pentothal sodium, 5: 262
- DRAPER, W. B., WHITEHEAD, R. W., and SPENCER, J. N., Studies on diffusion respiration. III. Alveolar gases and venous blood pH of dogs during diffusion respiration, 8: 524
- DRAPER, W. B., see IRWIN, R. L., jt. auth.
- DRAPER, W. B., see PARRY, T. M., jt. auth.
- DRAPER, W. B., see ROTH, L. W., jt. auth.
- DRAPER, W. B., see WHITEHEAD, R. W., jt. auth.
- DREW, C. R., Early recognition and treatment of shock, 3: 176
- DREW, J. H., DRIPPS, R. D., and COMROE, J. H., JR., Clinical studies on morphine. II. The effect of morphine upon the circulation of man and upon the circulatory and respiratory responses to tilting, 7: 44
- DRILL, V. A., see McMILLEN, N. R. J., jt. auth.
- DRIPPS, R. D., How can I "keep up" with medical progress? (edit.), 6: 81
- DRIPPS, R. D., Immediate decrease in blood pressure seen at the conclusion of cyclopropane anesthesia: "cyclopropane shock," 8: 15
- DRIPPS, R. D., Research and its relationship to clinical anesthesiology, 10: 690
- DRIPPS, R. D., The role of muscle relaxants in anesthesia deaths, 20: 542
- DRIPPS, R. D., and COMROE, J. H., Clinical studies on morphine. I. The immediate effect of morphine administered intravenously and intramuscularly upon the respiration of normal man, 6: 462
- DRIPPS, R. D., HANES, E. C., NGAI, S. H., OECH, S. R., PAPPER, E. M., and SECHZER, P. H., A clinical study of the muscle relaxant—Imbretil, 20: 646
- DRIPPS, R. D., and SERGENT, W. F., Use of a new curarizing agent, dihydro-beta-erythroidine, for the production of muscular relaxation during anesthesia and surgery, 8: 241
- DRIPPS, R. D., see ANTONETTI, J., jt. auth.
- DRIPPS, R. D., see COMROE, J. H., jt. auth.
- DRIPPS, R. D., see CONNER, E. H., jt. auth.
- DRIPPS, R. D., see DiGIOVANNI, A. J., jt. auth.
- DRIPPS, R. D., see DREW, J. H., jt. auth.
- DRIPPS, R. D., see DUNDEE, J. W., jt. auth.
- DRIPPS, R. D., see EATHER, K. F., jt. auth.
- DRIPPS, R. D., see ECKENHOFF, J. E., jt. auth.
- DRIPPS, R. D., see HARRIS, L. C., JR., jt. auth.
- DRIPPS, R. D., see KING, B. D., jt. auth.
- DRIPPS, R. D., see LANDMESSER, C. M., jt. auth.
- DRIPPS, R. D., see LURIE, A. A., jt. auth.
- DRIPPS, R. D., see PRUCE, H. L., jt. auth.
- DRIPPS, R. D., see SERGENT, W. F., jt. auth.
- DRIPPS, R. D., see VANDAM, L. D., jt. auth.
- DRIPPS, R. D., see WECHSLER, R. L., jt. auth.
- Dromoran: see Racemorphan
- Drugs: see also under names of specific substances
- action on myoneural junction, basic problems (Nachmansohn), 20: 421
- anesthetic
- effect on bronchi (Adriani & Rovenstine), 4: 253
- inhalation, hepatotoxicity of (Jones & others), 19: 715
- antianaleptic (edit.), 3: 83
- belladonna alkaloids, role in clinical anesthesia (Phelps), 3: 71
- effects (respiratory), interpretation of (Tenney), 17: 82
- effect of
- drugs used in anesthesiology on the tone and motility of the small intestine (Golden & Mann), 4: 577
- central nervous system stimulants in morphine depression (Handley & Ensberg), 6: 561
- morphine, atropine and scopolamine on human subjects (Wangeman & Hawk), 3: 24
- injection into bone marrow (Papper), 3: 307
- new, method of approach to introduction of, comments on benzimidazole (edit.), 16: 142
- potentiation (c.c.), 20: 724
- preanesthetic, anticholinergic (Stephen & others), 17: 303
- protection against shock, relationship of bowel and liver to (Rovenstine & others), 290
- spread of, spinal anesthesia (c.c.), 17: 205



- stimulant, action with morphine and relationship to the treatment of morphine poisoning (Hazleton & Koppányi), 2: 427
- used in spinal anesthesia, multiple autoclaving of (Carter & others), 15: 480
- volatile anesthetic, determining vapor concentrations of (Fabian & others), 19: 51
- Drying Agents: see Methanetheline Bromide; Atropine; Scopolamine
- DUMAS, P. A., see EGBERT, L. E., jt. auth.
- DUNCALF, D., see KOUKAL, L. R., jt. auth.
- DUNCAN, D., and JARVIS, W. H., Comparison of the actions on nerve fibers of certain anesthetic mixtures and substances in oil, 4: 465
- DUNDEE, J. W., and DRIPPS, R. D., Effects of diethyl ether, trichloroethylene and trifluoroethylvinyl ether on respiration, 18: 282
- DUNDEE, J. W., LINDE, H. W., and DRIPPS, R. D., Observations on trifluoroethylvinyl ether, 18: 66
- DUNDEE, J. W., and RICHARDS, R. K., Effect of azotemia upon the action of intravenous barbiturate anesthesia, 15: 333
- DUNDEE, J. W., see PRICE, H. L., jt. auth.
- Dura, low terminating (case report), 5: 412
- DURANT, T. M., see LONG, J. H., jt. auth.
- DUSHANE, J. W., see FIELDMAN, E. J., jt. auth.
- DWYER, C. S., KRONENBERG, S., and SAKLAD, M., The endotracheal tube: a consideration of its traumatic effects with a suggestion for the modification thereof, 10: 714
- DWYER, C. S., STROUT, W. G., and THOMAS, P. B., Intravenous Avertin anesthesia, 14: 291
- DWYER, C. S., see SAKLAD, M., jt. auth.
- Dyclonine Hydrochloride (Dyclone) new local anesthetic agent, clinical evaluation (Harris & others), 17: 648
- DYE, F. C., and VAUGHN, J. A., JR., Hypobaric saddle anesthesia for proctological surgery, 10: 489
- DYE, W. S., see SADOVE, M. S., jt. auth.
- Dystrophy, reflex sympathetic, criteria for diagnosis and treatment (Betcher & Casten), 16: 994
- EARLE, R. H., PERKINS, J. F., JR., and ADAMS, W. E., Carbon dioxide retention during hypoventilation in experimental animals, 19: 153
- EASON, E., and KARP, M., Acute pulmonary edema—case report, 4: 508
- EASTWOOD, D. W., see ANDREWS, P. M., jt. auth.
- EASTWOOD, D. W., see ELDER, J. D., JR., jt. auth.
- EASTWOOD, D. W., see HAMILTON, W. K., jt. auth.
- EATHER, K. F., The group private practice of anesthesiology: A tested plan of organization, 15: 689
- EATHER, K. F., PETERSON, L. H., and DRIPPS, R. D., Studies of the circulation of anesthetized patients by a new method for recording arterial pressure and pressure pulse contours, 10: 125
- Eaton headrest (c.c.), 11: 131
- EBERSOLE, C. M., and ARTUSIO, J. F., JR., Ether analgesia: inspired concentrations, flammability and levels in arterial blood, 19: 607
- ECCLESTON, H. N., see COAKLEY, C. S., jt. auth.
- ECHOLS, R. S., see ALLEN, C. R., jt. auth.
- ECKENHOFF, J. E., Introduction to muscle relaxant symposium, 20: 407
- ECKENHOFF, J. E., Phenazocine, a new benzomorphan narcotic analgesic, 20: 355
- ECKENHOFF, J. E., The physiology of the coronary circulation, 11: 168
- ECKENHOFF, J. E., Some anatomic considerations of the infant larynx influencing endotracheal anesthesia, 12: 401
- ECKENHOFF, J. E., What you read (edit.), 20: 698
- ECKENHOFF, J. E., and DRIPPS, R. D., The use of norepinephrine in various states of shock, 15: 681
- ECKENHOFF, J. E., and HELRICH, M., The effect of narcotics, thiopental and nitrous oxide upon respiration and respiratory response to hypercapnia, 19: 240
- ECKENHOFF, J. E., HELRICH, M., and HEGE, M. J. D., A method for studying respiratory functions in awake or anesthetized patients, 17: 66
- ECKENHOFF, J. E., HELRICH, M., and ROLPH, W. D., The effects of dihydrocodeine upon respiration and circulation in man, 18: 891
- ECKENHOFF, J. E., HELRICH, M., and ROLPH, W. D., The effects of promethazine upon respiration and circulation of man, 18: 703
- ECKENHOFF, J. E., HOFFMAN, G. L., and DRIPPS, R. D., N-allyl normorphine: an antagonist to the opiates, 13: 242
- ECKENHOFF, J. E., and KIRBY, C. K., Use of hyaluronidase in regional nerve blocks, 12: 27
- ECKENHOFF, J. E., see EGBERT, L. D., jt. auth.
- ECKENHOFF, J. E., see HELRICH, M., jt. auth.
- ECKENHOFF, J. E., see JONES, R. E., jt. auth.
- ECKENHOFF, J. E., see VANDAM, L. D., jt. auth.
- ECKMAN, M., see BARACH, A. L., jt. auth.
- Eclampsia, anesthesia in management of (Lund), 12: 693
- Economics, relation of anesthesia (edit.), 5: 521
- Edema: see under specific structures; complications
- EDERSTROM, H. E., see DEBOER, B., jt. auth.
- Edrophonium: see Tensilon
- Education in anesthesiology (edit.), 20: 879
- residents, training in anesthesiology (edit.), 14: 90
- teaching of anesthesia (Mushin), 19: 131
- undergraduate and anesthesiology (Allen), 5: 441
- EDWARDS, W. B., see HINGSON, R. A., jt. auth.
- Efocaine effect of, on oral mucous membrane (Piro & others), 15: 397
- a new approach to prolonged local anesthesia (Ansbro & others), 13: 306
- study (Jurgens), 16: 615



- EGBERT, L. D., DUMAS, D. A., GINTER, G. C., and ECKENHOFF, J. E., Modification of the circulatory response to electroshock therapy by thiopental, **20**: 309
- EGBERT, L. D., SECHZER, P. H., and ECKENHOFF, J. E., Comparative hypnosis produced by methitural (Neraval) and thiopental, **19**: 656
- EGER, E. I., and HAMILTON, W. K., The effect of reserpine on the action of various vasopressors (abs.), **20**: 123
- EGER, E. I., and HAMILTON, W. K., The effect of reserpine on the action of various vasopressors, **20**: 641
- EGER, E. I., and HAMILTON, W. K., Positive-negative pressure ventilation with a modified Ayre's T-piece, **19**: 611
- EGER, E. I., and KEASLING, H. H., Comparison of meprobamate, pentobarbital, and placebo as preanesthetic medication for regional procedures, **20**: 1
- EGGE, R. K., see ORKIN, L. R., jt. auth.
- EGGERS, G. W. N., CORSEN, G., and ALLEN, C. R., Comparison of vasopressor responses in the presence of phenothiazine derivatives, **20**: 261
- EGGERS, G. W. N., STOECKLE, H. G. E., and ALLEN, C. R., General anesthesia for cardiac catheterization, **20**: 817
- EGGERS, G. W. N., see CORSEN, G., jt. auth.
- EGNER, W. M., see WALTON, C. H., jt. auth.
- ELAM, J., A letter to the editor (edit.), **6**: 617
- ELAM, J. O., The design of circle absorbers (abs.), **19**: 99
- ELAM, J. O., and BROWN, E. S., Carbon dioxide homeostasis during anesthesia. IV. An evaluation of the partial rebreathing system, **17**: 128
- ELAM, J. O., and BROWN, E. S., Carbon dioxide homeostasis during anesthesia. II. Total sampling for determination of dead space, alveolar ventilation, and carbon dioxide output, **16**: 886
- ELAM, J. O., and BROWN, E. S., Carbon dioxide homeostasis during anesthesia. III. Ventilation and carbon dioxide elimination, **17**: 116
- ELAM, J. O., KERR, J. H., and JANNEY, C. D., Performance of ventilators: effect of changes in lung-thorax compliance, **19**: 56
- ELAM, J. O., see SAFAR, P., jt. auth.
- ELAM, J. O., see TEN PAS, R., jt. auth.
- ELDER, C. K., Naso-endotracheal intubation; advantages and technic of "blind intubation," **5**: 392
- ELDER, C. K., see CLEMENT, F. W., jt. auth.
- ELDER, J. D., JOHNSON, H., and BINDER, L. S., Cardiovascular studies on muscle relaxants (abs.), **18**: 161
- ELDER, J. D., NAGANO, S. M., EASTWOOD, D. W., and HARNAGEL, D., Circulatory changes associated with thiopental anesthesia in man, **16**: 394
- ELDER, J. D., see KING, B. D., jt. auth.
- ELERT, B., see COHEN, E. N., jt. auth.
- Electric shock devices, new approach to use in combating ventricular fibrillation (Schotz & Birkmire), **16**: 441
- stimulation in barbiturate poisoning, studies on analeptic action of (Blachly & Brookhart), **16**: 151
- Electrocardiogram: see under Heart
- Electrocardiography: see under Heart
- Electroconvulsive Therapy anesthesia for (Stevens & others), **15**: 623
- comparison of duration of hypnotic doses of thiopental and methitural for (Little & others), **20**: 177
- modification of circulatory response to, by thiopental (Egbert & others), **20**: 309
- Electroencephalogram: see under Brain
- Electroencephalography: see under Brain
- Electrolytes excretion of, effect of saline and anesthesia (Crawford & Gaudino), **13**: 374
- water excretion and renal hemodynamics, controlled hypotension with peniomid on—comparison with hexamethonium and Arfonad and effect of norepinephrine (Moyer & others), **16**: 355
- Electromyography: see under Muscles
- Electronarcosis current, use of as anesthetic agent (Knutson & others), **17**: 815
- electronarcosis (Ross & Allen), **4**: 630
- experiments in (Knutson), **15**: 551
- Electrophrenic respirator, portable (c.c.), **12**: 123
- ELIAS, M. G., see BURDICK, D. L., jt. auth.
- ELLIOT, H. L., and ARROWOOD, J. G., Anesthesia for oral surgery in the presence of cautery and diathermy, **6**: 32
- ELLIS, C. H., see WNUCK, A. L., jt. auth.
- ELLIS, D., see SOKALCHUK, A., jt. auth.
- ELLIS, D. W., see GREISHEIMER, E. M., jt. auth.
- ELLIS, F. C., see DAVIS, D. A., jt. auth.
- ELLIS, K., see LYNCH, S., jt. auth.
- Embolism: see also Complications
- air pneumoencephalography; simulated anesthetic death (Jacoby & others), **20**: 336
- prevention from intravenous sets (c.c.), **19**: 801
- under general anesthesia (case report), **10**: 357
- during anesthesia (c.c.), **5**: 300
- fat, a case report (Doud & Rovenstein), **7**: 291
- peripheral, use of prolonged continuous spinal anesthesia to relieve vasospasm and pain in (Smith & Rees), **9**: 229
- pulmonary, treatment by stellate block (Bageant & Rapee), **8**: 500
- EMMA, E., see FRIEDMANN, J. B., jt. auth.
- Emphysema pulmonary, patients with, use of positive-negative pressure respirator during pulmonary surgery (Siebecker & Curtis), **18**: 856

- subcutaneous, complication of endotracheal intubation (c.c.), 20: 714
- Endobronchial Anesthesia: see Anesthesia, endobronchial
- Endobronchial Blocker: see under Apparatus
- Endotracheal Adapter: see under Apparatus
- Endotracheal Anesthesia: see Anesthesia, endotracheal
- Endotracheal Catheter: see under Apparatus
- Endotracheal Connectors: see Apparatus
- Endotracheal Cuff: see also Apparatus  
use of, data pro and con (Adriani & Phillips), 18: 1
- Endotracheal Extubation: see Extubation, endotracheal
- Endotracheal Intubation: see Intubation, endotracheal
- Endotracheal Tubes: see also under Apparatus  
antisepsis of, and face masks (McDonald & others), 16: 206  
cuffed, with an incorporated endobronchial blocker (c.c.), 16: 468  
occlusion with foreign body (c.c.), 19: 561  
formula for estimating size in children (c.c.), 12: 255  
selection for children (corr.), 14: 506; 622  
sizes for infants and children (Slater & others), 16: 950  
prolonged use of (case report), 12: 662
- ENOS, R. W., see YOUNG, W. B., jr. auth.
- ENSBERG, D. L., see HANDLEY, C. A., jr. auth.
- Enzymes: see under names of specific enzymes
- Eosinophils, pituitary-adrenal response to surgical trauma and anesthesia, eosinopenic response (Traina & others), 14: 449
- Ephedrine  
combined with epinephrine in spinal anesthesia (Rochberg & Apgar), 3: 49  
comparison of desoxyephedrine (Yeakel & Selton), 9: 607  
effect on  
coronary circulation (Eckenhoff), 11: 168  
duration of procaine spinal anesthesia (Helrich & others), 12: 595  
duration of spinal anesthesia (Sergent & Dripps), 10: 260  
duration of spinal anesthesia (Bray & others), 10: 40  
procaine toxicity (Isenberger), 10: 343  
intrathecally, effect on heart (Howard & others), 11: 694  
local anesthetic properties (Schultz), 1: 69  
with pituitary extract, pressor activity and stability of different mixtures of (Melville), 7: 176  
with Pontocaine-dextrose for spinal anesthesia (Potter & Whitacre), 7: 499  
use of to prolong spinal anesthesia (Bonica & others), 12: 431
- Epidural Anesthesia: see Anesthesia, epidural
- Epidural Space  
spread of lidocaine and 1-131 solution in (Nishimura & others), 20: 785  
spread of radiopaque solutions in (Moore & others), 19: 377
- Epinephrine  
autoclaving (c.c.), 17: 366; (corr.), 17: 633; (corr.), 17: 752  
administered during ether anesthesia, metabolic consequences of (abs.), 19: 104  
combined with ephedrine in spinal anesthesia (Rochberg & Apgar), 3: 49  
concentration of Pontocaine hydrochloride in cerebrospinal fluid during spinal anesthesia, influence of, in prolonging the sensory anesthetic effect (Converse & others), 15: 1  
continuous intravenous infusion of, during cyclopropane and ether anesthesia in dog, cardiovascular effects of (Deterling & others), 15: 11
- cyclopropane  
arrhythmias: see also Cyclopropane  
effect of dibenamine (Nickerson & Smith), 10: 562  
effect of ether on (Greisheimer & others), 15: 51  
in dogs by phenothiazine derivatives, suppression of (Winbury & others), 19: 743  
relation of blood pressure to (Murphy & others), 10: 416  
ventricular  
fibrillation  
failure of procaine to reverse (Stutzman), 6: 57  
induced, laboratory studies on the prophylaxis and treatment of (Burstein & others), 1: 167  
mephentermine as antifibrillatory drug against (Lynch & others), 16: 632
- tachycardia  
further studies (Stutzman & others), 8: 579  
production of (Allen & others), 1: 158  
prevention by diethyl ether (Stutzman & others), 3: 259  
effect of, on blood levels of epinephrine (Young & others), 4: 31  
response of the digitalized heart to (Stutzman & others), 3: 644
- duration of local anesthesia in relation to concentrations of procaine and epinephrine (Leser), 1: 205
- effect on  
bronchi under anesthesia (Cohen & others), 10: 451  
coronary circulation (Eckenhoff), 11: 168  
duration of procaine spinal anesthesia (Helrich & others), 12: 595  
duration of spinal anesthesia (Bray & others), 10: 40  
duration of spinal anesthesia (Sergent & Dripps), 10: 260  
effects of thyroid hormones on hemodynamic and metabolic responses to (abs.), 18: 156
- Fluothane sensitization of dog heart to (Hall & Norris), 19: 631  
induced cardiac irregularities in dog during anesthesia (Morris & others), 14: 153

- in initiation of ventricular arrhythmias by carbon dioxide inhalation during cyclopropane anesthesia (Price & others), 19: 619
- injection of, in thyrotoxic and euthyroid patients, effect of atropine and scopolamine on (Sarnoff & Cope), 15: 484
- intrathecally, effect on heart (Howard & others), 11: 694
- misuse during ether anesthesia (Byrd), 2: 654
- in Pontocaine solution, for nerve block (Moore), 11: 65
- with procaine for spinal anesthesia (Prickett & others), 6: 469
- role in analgesia (Gross & others), 9: 459
- use of to prolong spinal anesthesia (Bonica & others), 12: 431
- EPSTEIN, R. M., see FRUMIN, M. J., jt. auth.
- Equinal: see Meprobamate
- Equipment: see Apparatus
- ERDOS, E. G., see FOLDES, F. F., jt. auth.
- Ergotamine tartrate, effect on cardiac arrhythmias (Nickerson & Smith), 10: 562
- ERICKSON, A. E., see RUGH, W. L., jt. auth.
- Erythroblastosis foetalis
- caused by double sensitization to the factors rh' and Hr (Weiner & Brancato), 9: 175
- selection of donors, for exchange transfusion in (Wiener & Wexler), 9: 296
- Eserine salicylate, curare antagonism (Burke & others), 9: 251
- Esophagus
- operations of, anesthesia for (Wilkins), 4: 274
- reflexes, effect on respiration (Reid & Brace), 4: 345
- rupture of varices (c.c.), 19: 291
- ESPINOSA, A. M., and ARTUSIO, J. F., The dose response relationship and duration of action of succinylcholine in anesthetized man, 15: 239
- ESSEX, H. E., see ANDERSON, B. M., jt. auth.
- ESSEX, H. E., see ANDERSON, C. D., jt. auth.
- ESSEX, H. E., see MOUSEL, L. H., jt. auth.
- ESSEX, H. E., see PAULSON, J. A., jt. auth.
- ESSEX, H. E., see PENDER, J. W., jt. auth.
- ESSEX, H. E., see SELDON, T. H., jt. auth.
- ESTABLE, J. J., see SOLLMANN, T., jt. auth.
- Etamon: see Tetraethyl Ammonium Chloride
- Ethanol, effect on postspinal headache (Deutsch), 13: 496
- Ether
- aliphatic, anesthetic activity of (Marsh & Leake), 11: 455
- cyclopropyl ethyl, studies in man (Kelborn & others), 3: 414
- cyclopropyl methyl, studies with (Black & others), 1: 274
- diethyl
- administration in tropics (Storni & Lundy), 5: 380
- air
- anesthesia, pulmonary ventilation and arterial oxygen saturation during (Ikezono & others), 20: 597
- endotracheal, for intrathoracic surgery (Mayer & Neff), 7: 32
- a technic (Saklad & others), 6: 597
- allergy
- a case report (Stein), 6: 515
- (corr.), 7: 84
- analgesia, concentrations, flammability and blood levels (Ebersole & Artusio), 19: 607
- anesthesia
- blood ammonia levels during (Goldberg & Hamilton), 20: 836
- cardiovascular effects of continuous intravenous infusion of norepinephrine, epinephrine and neosynephrine during (Deterling & others), 15: 11
- circulation, neurogenic control of, in dogs, during (McAllister & Rout), 3: 491
- comparison with thiopental-nitrous oxide-succinylcholine for upper abdominal surgery (Bunker & others), 20: 745
- diethyl (Stewart), 2: 635
- effect of
- on human skeletal muscle metabolism (abs.), 20: 128
- N-allylnormorphine and levallorphan on respiration during and after (May & others), 18: 871
- electroencephalographic
- frequency spectrum analysis during (Bellville & Artusio), 17: 653
- pattern and frequency spectrum analysis during (Bellville & Artusio), 16: 379
- epinephrine during, misuse of (Byrd), 2: 654
- heart sounds during (Rence & others), 17: 26
- in dog, effects of hypocapnea on development of (Guy & others), 20: 55
- metabolic consequences of epinephrine and insulin administered during (abs.), 19: 104
- in rats, duration of action of pentobarbital as influenced by (abs.), 18: 165
- respiratory effects of oxygen deficiency and carbon dioxide excess during (Gordh & Åström), 16: 245
- respiratory responses to carbon dioxide transients during (Cobb & others), 19: 359
- apparatus for
- administration of (c.c.), 7: 83
- administration of vapor (c.c.), 7: 321
- administration of under emergency circumstances (Neff & Lind), 6: 337
- insufflation (c.c.), 4: 311
- insufflation, rubber catheter hook for (c.c.), 16: 648
- cerebral anoxia during (Courville), 2: 44
- content of arterial blood required for surgical anesthesia, effect of preanesthetic medication on (Taylor & others), 18: 849
- convulsions
- controlled with curare (Greenfield), 7: 299
- experimental production (Owens & others), 18: 583

- concentration of, correlation with physiologic variables (Ridley & others), 12: 276
- concentrations, in blood, correlation with electroencephalographic patterns (Faulconer), 13: 361
- colonic anesthesia (Gwathmey), 3: 171
- determination
- in blood (Price & Price), 17: 293
  - in blood, analysis of gases with mass spectrometer (Jones & others), 14: 490
  - determination of (Strayer), 11: 599
  - in mixtures of oxygen, nitrous-oxide and nitrogen (Faulconer & Ridley), 11: 265
  - physical methods for (Faulconer), 10: rapid, in blood (Criscuolo & others), 20: 593
- effect of
- anesthesia with, on Indoklon-induced cerebral cortical seizures (Ling & others), 20: 173
  - and morphine on cardiovascular functions in dog (Greisheimer & others), 18: 73
  - on oxidative-phosphorylation in brain (Hulme & Krantz), 16: 627
  - premedication on traumatic shock in animals under ether anesthesia (Anderson & Essex), 4: 475
  - on respiration (Dundee & Dripps), 18: 282
  - in shocked rats (Virtue & others), 17: 47
- effect on
- blood sugar (Johnson), 10: 379
  - cyclopropane-epinephrine arrhythmias (Greisheimer & others), 15: 51
  - electrocardiogram (Virtue & Pierce), 12: 442
  - on the isolated auricle of the cat (Acierno & Di Palma), 12: 567
  - liver (Hugili), 11: 567
  - myocardium of the dog (Fisher & others), 12: 19
  - peripheral vascular hemeostasis (Hershey & Zweifach), 11: 145
  - prothrombin level (Levy & Conroy), 7: 276
  - tissue distribution and metabolism of pentobarbital in rats (Baekeland & Greene), 19: 724
- electroencephalographic manifestations of amnesia and analgesia produced by (abs.), 18: 172
- hemiplegia following anesthesia with (Pisetsky), 6: 522
- hyperglycemia: see also Ether, diethyl, effect on blood sugar
- effect of morphine and pentobarbital on (Watts), 13: 33
  - as influenced by premedication and pentothal induction (Bass & others), 14: 18
- idiosyncrasy to (case report), 8: 313
- infrared analysis for carbon dioxide in respired gases containing (Linde & Lurie), 20: 45
- oxygen saturation of blood during (Faulconer & Latterell), 10: 247
- neuromuscular effects of (Watland & others), 18: 883
- neurosurgery, anesthesia for (Teplinsky & others), 10: 82
- pituitrin with (Parsole & others), 11: 77
- prevention of cyclopropane-epinephrine tachycardia by (Stutzman & others), 3: 259
- prolonged administration of low, graded concentration of, clinical and electroencephalographic study of changes during (abs.), 20: 129
- pure and impure, a review (Bourne), 7: 599
- respiration studies during anesthesia with (Patrick & Faulconer), 13: 252
- specific heat of (corr.), 9: 443
- tension
- during anesthesia (Faulconer & Latterell), 10: 247
  - physical methods of determination (Faulconer), 10: 247
- thoracic surgery, anesthesia for (Gruenwald & Sword), 10: 295
- vaporization
- method for rapid (c.c.), 2: 695
  - in Copper Kettle (Feldman & Morris), 19: 650
- divinyl
- anesthesia, abnormal motor movements during (DiGiovanni & Dripps), 17: 353
  - complication of use of (c.c.), 17: 503
  - divinyl (Stewart), 2: 635
  - effect on the myocardium of the dog (Fisher & others), 12: 19
  - electrocardiogram
    - changes during anesthesia with (Bush & others), 13: 197
    - effect on (Virtue & Pierce), 12: 442  - hepatorenal syndrome following (Hawk & others), 2: 388
  - oil-water distribution ratio (Ruigh & Erickson), 2: 546
  - recent laboratory and clinical investigation (Martin & Rovenstine), 2: 285
  - stability (Adriani), 2: 191
  - studies on vinethene as an anesthetic agent (Orth & others), 1: 246
- ethyl n-propyl
- anesthetic properties of (Carr & others), 8: 53
  - potency and safety of (Krantz & others), 8: 497
  - a satisfactory general anesthetic agent for intranasal surgery (Griffith & MacLeod), 8: 615
- ethylvinyl (Vinamar)
- comparative study with trifluoroethylvinyl ether (Park & others), 18: 250
  - estimation in blood (Linde), 19: 254
  - stability in animal body (Musser & others), 18: 480
  - thoracic compliance in anesthetized subject using (abs.), 19: 116

- (Faul-  
others),  
sky &  
77  
ephrine  
rs), 3:  
ed con-  
cephalo-  
s.), 20:  
7: 599  
a with  
terell),  
(Faul-  
enwald  
Morris),  
ts dur-  
53  
Fisher  
Bush &  
2  
awk &  
Erick-  
igation  
agent  
rs), 8:  
rs), 8:  
nt for  
Leod),  
ylvinyl  
thers),  
subject
- fluorinated, anesthetic properties of (Lu & others), 14: 466  
isopropenyl vinyl  
cardiac effects and blood gases during anesthesia with (Evans & others), 6: 159  
effect on kidney and liver (Evans & others), 6: 39  
studies with in man (Davis & Krantz), 5: 159  
physical properties of (Carr & others), 5: 495  
methyl n-propyl  
anesthetic properties of (Carr & others), 8: 53  
blood levels of (Kibler), 8: 288  
clinical observations on (Rochberg), 8: 637  
clinical use of (Fisher & Whitacre), 8: 156  
peroxides formation and decomposition (Shukys & Neeley), 19: 671  
trifluoroethylvinyl (Fluoromar)  
correlations of electroencephalogram with (abs.), 18: 167  
and ethylvinyl ethers, stability in animal body (Musser & others), 18: 480  
Ethyl Chloride  
anesthesia, epinephrine induced cardiac irregularities in dog during (Morris & others), 14: 153  
effect on  
electrocardiogram (Virtue & Pierce), 12: 442  
liver (Hugill), 11: 567  
electrocardiographic changes during anesthesia with (Bush & others), 13: 197  
ethyl chloride (Stewart), 2: 635  
Ethylene  
determination (Strayer), 11: 599  
effect on  
liver (Hugill), 11: 567  
uterine motility (Howard & others), 10: 151  
-oxygen anesthesia, three decades of (Livingstone), 16: 224  
Ethylene oxide, sterilization of ampuls with (Hallowell & others), 19: 665  
ETSTEN, B., and HEMWICH, H., Stages and signs of Pentothal anesthesia: physiologic basis, 7: 536  
ETSTEN, B. E., and LI, T. H., Circulatory effects of chlorpromazine before and during cyclopropane anesthesia in man, 18: 203  
ETSTEN, B. E., and LI, T. H., The determination of cardiac output by the dye dilution method: Modifications, comparison with the Fick method, and application during anesthesia, 15: 217  
ETSTEN, B. E., REYNOLDS, R. N., and LI, T. H., The effects of controlled respiration on circulation during cyclopropane anesthesia, 16: 365  
ETSTEN, B., REYNOLDS, R. N., and LI, T. H., Studies on ventilation and circulation during surgery using a volume displacement ventilator (abs.), 19: 100  
ETSTEN, B. E., see LI, T. H., jt. auth.  
EVANGELOU, M., and ADRIANI, J., Chemical rhizotomy (intrathecal alcohol) for paraplegic clonus, 16: 594  
EVANGELOU, M., and ADRIANI, J., The sympathomimetic effect of cocaine in the production of cardiac arrhythmias during cyclopropane anesthesia, 16: 1017  
EVANS, W. E., CARR, C. J., and KRANTZ, J. C., Anesthesia. XV. A comparative study of liver and kidney changes under propethylen, 6: 39  
EVANS, W. E., and KRANTZ, J. C., Anesthesia. XVII. Cardiac effects and blood gases under anesthesia with propethylen, 6: 159  
EVANS, W. E., see KILBORN, M. G., jt. auth.  
EVANS, W. E., see KRANTZ, J. C., jt. auth.  
EVERETT, F. G., The local anesthetic properties of amidone (Dolophine), 9: 115  
EVERSOLE, U. H., The prevention and treatment of post operative pulmonary complications with special reference to suction bronchoscopy, 1: 72  
EVERSOLE, U. H., see SCHUMACHER, L. F., JR., jt. auth.  
Evipal Sodium: see Hexobarbital Sodium  
Experimentation, influence of opiates upon results (edit.), 17: 616  
Explosimeter, (corr.), 7: 203  
Explosion  
of anesthetic gases in closed system (case report), 4: 306  
combustion characteristics of anesthetics (Lawrence & Bastress), 20: 192  
ether analgesia, hazard of, during (Ebersole & Artusio), 19: 607  
hazard  
in anesthesia (Greene), 2: 144  
detection of (Uhl & others), 10: 479  
dispersion of static electricity by ionization of air (Slocum & Finvold), 5: 33  
operating room, case report (c.c.), 17: 751  
precautions (c.c.), 12: 505  
prevention  
with, of carbon tetrafluoride (Jones & others), 11: 562  
of cyclopropane-oxygen by dilution with helium (Jones & Thomas), 2: 138  
electrical equipment and (Cooper), 12: 246  
the problem of (Horton), 2: 121  
recommended safe practice (edit.), 17: 745  
role of shoes in (Greene), 13: 203  
soda lime as hazard (corr.), 14: 99  
Extradural Block: see Anesthesia, block, extradural  
Extraocular Muscles: see under Eyes; Muscles  
Extremities  
sympathectomized, blood flow in, after general anesthesia (Beaconsfield & Messent), 16: 428  
Extubation  
effect on heart (Converse & others), 13: 163  
use of succinylcholine during (Lambe & Pfaff), 17: 47  
Eyes  
action of succinylcholine on extraocular muscles and intraocular pressure (Dillon & others), 18: 44



- intraocular pressure  
depolarizing neuromuscular blocking agents and (*in vivo*) (Dillon & others), 18: 439  
effect of succinylcholine on (abs.), 19: 112  
oculo-cardiac reflex in eye muscle surgery (Bosomworth & others), 19: 7
- EZELL, S. D., Standards and the foreign resident (edit.), 17: 500
- FABIAN, L. W., BOURGEOIS-GAVARDIN, M., and STEPHEN, C. R., Laboratory investigation of a new "universal analeptic" (WIN 7929) (abs.), 18: 161
- FABIAN, L. W., BOURGEOIS-GAVARDIN, M., and STEPHEN, C. R., A method for determining vapor concentrations of volatile anesthetic drugs, 19: 51
- FABIAN, L. W., STEPHEN, C. R., BOURGEOIS-GAVARDIN, M., and DENT, S. J., Performance characteristics of vaporizers for administration of Fluothane, 20: 27
- FABIAN, L. W., see STEPHEN, C. R., jt. auth.
- Face Mask  
fitting, to relieve pharyngeal obstruction (c.c.), 20: 118  
for edentulous patients (c.c.), 19: 90  
Fainting, effect of morphine (Salter and White), 10: 553
- FAISON, E., see SCHACK, J. A., jt. auth.
- FARQUHARSON, H., and MURPHY, F. J., The use of Pentothal sodium—pentobarbital sodium combination in prolonged surgical procedures, 11: 489
- FARR, H. W., see SARNOFF, S. J., jt. auth.
- FARSON, DE C. B., see CARR, C. J., jt. auth.
- Fat embolism (Doud & Roventine), 7: 291
- FAULCONER, A., Analysis of gases in blood with the mass spectrometer. I. Introduction, 14: 405
- FAULCONER, A., Anesthetic vaporizers: a physical basis for functional classification, 18: 372
- FAULCONER, A., Correlation of concentrations of ether in arterial blood with electroencephalographic patterns occurring during ether-oxygen and during nitrous oxide, oxygen and ether anesthesia of human surgical patients, 13: 361
- FAULCONER, A., A study of physical methods for the determination of ether vapor in air-ether mixtures, 10: 1
- FAULCONER, A., GAINES, T. R., and GROVE, J. S., Atelectasis during operations on the upper urinary tract, 7: 635
- FAULCONER, A., and LATTERELL, K. E., Tensions of oxygen and ether vapor during use of the semi-open, air-ether method of anesthesia, 10: 247
- FAULCONER, A., PENDER, J. W., and BICKFORD, R. G., The influence of partial pressure of nitrous oxide on the depth of anesthesia and the electroencephalogram in man, 10: 601
- FAULCONER, A., and RIDLEY, R. W., Continuous quantitative analysis of mixtures of oxygen, nitrous oxide and ether with and without nitrogen. I. The acoustic gas analyzer for mixtures of first three gases. II. The acoustic gas analyzer and the Beckman oxygen analyzer for mixtures of the four gases, 11: 265
- FAULCONER, A., see BOLLMAN, J. L., jt. auth.
- FAULCONER, A., see HATTOX, J. S., jt. auth.
- FAULCONER, A., see JONES, C. S., jt. auth.
- FAULCONER, A., see KIERSEY, D. K., jt. auth.
- FAULCONER, A., see MARTIN, J. T., jt. auth.
- FAULCONER, A., see PATRICK, R. T., jt. auth.
- FAULCONER, A., see PITTINGER, C. B., jt. auth.
- FAULCONER, A., see POSSATI, S., jt. auth.
- FAULCONER, A., see RIDLEY, R. W., jt. auth.
- FAULCONER, A., see SOLTERO, D. E., jt. auth.
- FAULCONER, A., see TAYLOR, H. E., jt. auth.
- FAUST, F. L., Repeated sympathetic blocks: their limitation and value, 7: 161
- FAZIO, A. N., see BOLLMAN, J. L., jt. auth.
- FEATHERSTONE, H. W., Chloroform, 8: 362
- FEATHERSTONE, R. M., see PITTINGER, C. B., jt. auth.
- FEATHERSTONE, R. M., see WULF, R. J., jt. auth.
- FELDMAN, E., GREENE, B. A., and CHINN, H. Y. H., Spinal analgesia for translumbar aortography, 15: 66
- FELDMAN, E., see GREENE, B. A., jt. auth.
- FELDMAN, S. A., FORGAARD, D. M., and MORRIS, L. E., Compatibility of synthetic oxytocin (Syntocinon) with anesthesia in dogs, 19: 787
- FELDMAN, S. A., and MORRIS, L. E., Vaporization of halothane and ether in the Copper Kettle, 19: 650
- FELDMAN, S. A., see MORRIS, L. E., jt. auth.
- FEINSTEIN, B., and LIBET, B., Nerve block by mephensin, 14: 333
- FENDER, F. A., NEFF, W. B., and BINGER, G., Convulsions produced by fetal anoxia; experimental study, 7: 10
- FERGUSON, J., Action of curare on the motility of non-innervated smooth muscle and its relationship to acetylcholine, 13: 615
- FERGUSON, J., Action of succinylcholine on motility of aneural smooth muscle and its relationship to acetylcholine, 18: 413
- Fermentation, and cell respiration: a background for the study of narcotic action (Field), 8: 127
- Fever  
effect on morphine action (Salter & White), 10: 553  
oxygen during, the rational for (Cullen & others), 3: 123
- FIELD, J., Cell respiration and fermentation: a background for the study of narcotic action, 8: 127
- FIELDMAN, E. J., LUNDY, J. S., DUSHANE, J. W., and WOOD, E. H., Anesthesia for children undergoing diagnostic cardiac catheterization, 16: 868
- FIELDMAN, E. J., RIDLEY, R. W., and WOOD, E. H., Hemodynamic studies during thiopental sodium and nitrous oxide anesthesia in humans, 16: 473



- FIERRO, F. E., see DeCruits, V. L., *jt. auth.*
- FINE, J. H., Fluid therapy before and after operation, 3: 65
- FINER, C. H., and ROVENSTINE, E. A., Application of a new piperidine derivative to spinal anesthesia: preliminary report, 8: 619
- FINESINGER, J. E., see TUCCI, J. H., *jt. auth.*
- FINK, B. R., Diffusion anoxia, 16: 511
- FINK, B. R., The etiology and treatment of laryngeal spasm, 17: 569
- FINK, B. R., A nonbreathing valve of new design, 15: 471
- FINK, B. R., Roentgen ray studies of airway problems; I. The oropharyngeal airway (abs.), 18: 162
- FINK, B. R., Roentgenographic studies of the oropharyngeal airway, 18: 711
- FINK, B. R., and NGAI, S. H., Electromyography of the diaphragm (abs.), 20: 124
- FINK, B. R., see NGAI, S. H., *jt. auth.*
- FINK, M., see HELRICHE, M., *jt. auth.*
- FINVOLD, R., see SLOCUM, H. C., *jt. auth.*
- FISCH, H., see ADELMAN, M. H., *jt. auth.*
- FISHER, A. J., and WHITACRE, R. J., Clinical use of Metopryl as an anesthetic agent, 8: 156
- FISHER, A. J., and WHITACRE, R. J., Nupercaine in dilutions greater than 1:1500 for spinal anesthesia, 8: 584
- FISHER, A. J., see WHITACRE, R. J., *jt. auth.*
- FISHER, C. W., BENNETT, L. L., and ALLAHWALA, A., The effect of inhalational anesthetic agents on myocardium of the dog, 12: 19
- FISHER, K., LEE, L. D., STEGEMAN, D. E., and YOUNG, R. B., Anesthetic management for surgery within the thorax: a report of 309 cases, 9: 623
- FISHER, K., and WINSOR, T., Contributions of electrocardiography to anesthesia for chest surgery, 13: 147
- FISHER, K., and WINSOR, T., Control of vagal cardiovascular reflexes during surgery employing  $\beta$ -diethylaminoethyl xanthene-9-carboxylate methobromide, 14: 596
- FISHER, S. M., see KEOWN, K. K., *jt. auth.*
- FITZGERALD, J. E., see BROWN, H. O., *jt. auth.*
- FITZPATRICK, L. J., CLARIE, D. C., and MERSCH, M. M., Methitural sodium (Neraval sodium): a new ultrashort acting intravenous anesthetic, 17: 684
- FLAGG, P. J., Scientific discussions (edit.), 3: 336
- Flagg's sign (diaphragmatic paralysis) (Cassels & Gittelson), 9: 48
- FLAUTT, J. R., see CLARK, S. S., *jt. auth.*
- Flaxedil: see Gallamine
- FLOCK, E. V., see BOLLMAN, J. L., *jt. auth.*
- FLORY, F., see JACOBY, J., *jt. auth.*
- Fluids  
injection into bone marrow (Papper), 3: 307  
parenteral, comparative value of (Bradasch), 5: 1  
therapy, before and after operation (Fine), 3: 65
- Fluoromar: see Trifluoroethylvinyl Ether
- Fluothane: see Halothane
- Fluphenazine (c.c.), 20: 892
- Fog  
production of, as therapeutic agent (Arnold & Tovell), 17: 400  
utilization as a therapeutic agent (Tovell & Little), 18: 470
- FOLDES, F. F., Factors which alter the effects of muscle relaxants, 20: 464
- FOLDES, F. F., Some problems of geriatric anesthesia, 11: 737
- FOLDES, F. F., BAART, N., SHANOR, S. P., and ERDOS, E. G., The inhibitory effect of neuromuscular blocking agents and their antagonists on human cholinesterases (abs.), 18: 163
- FOLDES, F. F., DAVIS, D. L., and PLEKSS, O. J., Influence of halogen substitution on enzymatic hydrolysis, 17: 187
- FOLDES, F. F., and MACHAJ, T. S., Sincurine (decamethonium bromide): its use with pentothal sodium and nitrous oxide-oxygen anesthesia in abdominal surgery, 12: 366
- FOLDES, F. F., and McNALL, P. G., 2-Chloroprocaine: a new local anesthetic agent, 13: 287
- FOLDES, F. F., and McNALL, P. G., The use of succinylcholine for endotracheal intubation, 14: 93
- FOLDES, F. F., SWERDLOW, M., LIPSCHITZ, E., VAN HEES, R., and SHANOR, S. P., Comparison of the respiratory effects of suxamethonium and suxethonium in man, 17: 559
- FOLDES, F. F., VANDERVORT, R. S., and SHANER, S. P., The fate of succinylcholine in man, 16: 11
- FOLDES, F. F., WOLFSON, B., TORRES-KAY, M., and MONTE, A., The neuromuscular activity of hexamethylene-1,6-bis-carbaminoylcholine bromide (Imbretil) in man, 20: 767
- FOLDES, F. F., see ARROWOOD, J. G., *jt. auth.*
- FOLDES, F. F., see BRUNN, H. M., *jt. auth.*
- FOLDES, F. F., see KOUKAL, L., *jt. auth.*
- FOLDES, F. F., see ZEEDICK, J. F., *jt. auth.*
- FOOT, E. B., BISHOP, K., and APGAR, V., Tetrachlorethylurea as an anesthetic agent, 4: 283
- FOREGGER, R., The classification and performance of respiratory valves, 20: 296
- FOREGGER, R., Factors affecting the supply of anesthesiology residents (edit.), 12: 388
- FOREGGER, R., Gwathmey, 5: 296
- FOREGGER, R., Jane Ingen Housz and Joseph Priestley controversy on carbon dioxide absorption, 17: 511
- FOREGGER, R., Joseph Black and the identification of carbon dioxide, 18: 257
- FOREGGER, R., The regeneration of soda lime following absorption of carbon dioxide, 9: 15
- FOREGGER, R., A report from England, the Nuffield Department of Anaesthetics, 5: 81
- FOREGGER, R., The rotameter in anesthesia, 1: 549
- FOREGGER, R., Surface temperatures during anesthesia, 4: 392
- FOREGGER, R., Use of endotracheal tube in therapy of post-traumatic pulmonary secretions, 7: 285

- FOREGGER, R., and TELLA, R. A., Department of anesthesiology in a Veterans Administration hospital affiliated with a medical school, 12: 234
- FOREGGER, R., see ALLEN, C. R., jt. auth.
- FORGAARD, D. M., see FELDMAN, S. A., jt. auth.
- FORMAN, S. E., see KILBORN, M. G., jt. auth.
- FORMEL, P. E., see LANDMESSER, C. M., jt. auth.
- FORNEY, R. B., see GRUBER, C. M., jt. auth.
- FOSBINDER, R. J., see HUNT, W. H., jt. auth.
- FOSTER, A. D., NEUMAN, C., and ROVENSTINE, E. A., Selection of anesthesia for physiologic experiments: the use of the Oxford ether vaporizer, 6: 181
- FOSTER, A. D., NEUMAN, C., and ROVENSTINE, E. A., Peripheral circulation during anesthesia, shock and hemorrhage; the digital plethysmograph as a clinical guide, 6: 246
- FOSTER, P. A., Roentgen therapy and cyclopropane sensitivity, 17: 735
- FOWLER, C. W., see THORNTON, W., jt. auth.
- FOX, J. L., see MARK, L. C., jt. auth.
- Fractures, treatment, intravenous procaine (Graubard & Peterson), 10: 175
- FRANCIS, L., and CUTLER, R. P., Psychological preparation and premedication for pediatric anesthesia, 18: 106
- FRANK, M. N., see BURKE, J. C., jt. auth.
- FRANZ, F., and TOVELL, R. M., A study of hypodermic needle points, 17: 724
- FRASER, H. F., ISBELL, H., and VAN HORN, G. D., Effects of morphine as compared with a mixture of morphine and diaminophenylthiazole (Daptazole), 18: 531
- FRAZIER, T. M., see PHILLIPS, O. C., jt. auth.
- FREDERICKSON, E. L., see MORRIS, L. E., jt. auth.
- FRENCH, L. A., see VAN BERGEN, F. H., jt. auth.
- Frequency Spectrum Analysis: see under Brain, electroencephalography
- FREYBURGER, W. A., see MOE, G. K., jt. auth.
- FRIBERG, O., see BJÖRK, V. O., jt. auth.
- FRIEDMAN, D. L., see KENNEDY, R. L., jt. auth.
- FRIEDMAN, E. A., see LITTLE, W. A., jt. auth.
- FRIEDMANN, J. B., and EMMA, E., Consideration of anesthesia during carinal resection, 12: 740
- FRIEND, A. W., and TOVELL, R. M., Gases encountered in warfare, 3: 546
- FRUMIN, M. J., Clinical use of a physiological respirator producing N<sub>2</sub>O amnesia-analgnesia, 18: 290
- FRUMIN, M. J., and APGAR, V., Continuous segmental epidural anesthesia with catheter via the caudal canal: a preliminary note, 10: 733
- FRUMIN, M. J., BERGMAN, N. A., and HOLADAY, D. A., Carbon dioxide and oxygen blood levels with a carbon dioxide controlled artificial respirator, 20: 313
- FRUMIN, M. J., EPSTEIN, R. M., and COHEN, G., Apneic oxygenation in man, 20: 789
- FRUMIN, M. J., and PAPPER, E. M., Inhibition of sweating in man by scopolamine, 12: 627
- FRUMIN, M. J., and SCHWARTZ, H., Continuous segmental peridural anesthesia, 13: 488
- FRUMIN, M. J., SCHWARTZ, H., BURNS, J. J., BRODIE, B. B., and PAPPER, E. M., Sites of sensory blockade during segmental spinal and segmental peridural anesthesia in man, 14: 576
- FRUMIN, M. J., see BERGMAN, N. A., jt. auth.
- FRUMIN, M. J., see SCHWEISS, J. F., jt. auth.
- FUJITA, M., see ORKIN, L. R., jt. auth.
- FULLER, E. M., see HAMPTON, L. J., jt. auth.
- FULLER, J. D., Advantages of the preoperative use of slowly absorbed d-tubocurarine, 13: 370
- FULTON, J. F., The vision and daring of youth. The story of the introduction of surgical anesthesia, 8: 464
- GABUYA, R. L., see ORKIN, L. R., jt. auth.
- GADERMANN, E., see CORSEN, G., jt. auth.
- GAIN, E. A., see BURNAP, R. W., jt. auth.
- GAINES, T. R., see FAULCONER, A., jt. auth.
- GALE, A. S., Intravenous Ritalin: A barbiturate and meperidine antagonist (abs.), 17: 101
- GALE, A. S., The effect of methylphenidate (Ritalin) on thiopental recovery, 19: 521
- GALE, A. S., Recovery from thiopental and methitural-nitrous oxide anesthesia for a standard short procedure, 18: 573
- GALLA, S. J., ROCCO, A. G., and VANDAM, L. D., Evaluation of the traditional signs and stages of anesthesia: an electroencephalographic and clinical study, 19: 328
- GALLA, S. J., WILLIAMSON, A. W. R., and VANDAM, L. D., Prolonged maintenance of coronary sinus catheters in dogs for the study of myocardial metabolism (abs.), 20: 124
- GALLA, S. J., see BURNAP, T. K., jt. auth.
- Gallamine (Flaxedil): see also Muscle Relaxants combined effect of thiopental-Flaxedil, intubation and atropine on dead space (abs.), 18: 157
- for intubation (c.c.), 13: 437
- Ganglion blockade and protective action in hemorrhage (Bobá & Converse), 18: 559
- stimulating drugs administered during cyclopropane, cardiovascular studies (Cumings & Hays), 17: 314
- Gangrene, treatment, intravenous procaine (Graubard & Peterson), 10: 175
- GANTS, R. T., see SNYDER, J. J., jt. auth.
- GANTT, W. H., see TEITELBAUM, H. A., jt. auth.
- GARLINGTON, L. N., and BAILEY, P. J., Primary hyperaldosteronism: anesthetic experience with two cases, 19: 661
- GARLINGTON, L. N., see HALL, K. D., jt. auth.
- GAROFALO, M. L., see GOLD, L. H., jt. auth.
- GARST, E. L., see GRACA, J. G., jt. auth.
- GARTH, W. L., Subarachnoid block with crystalline pontocaine, 2: 205
- GARVIN, J. P., see JACOBY, J., jt. auth.
- Gas: see also of specific substances alveolar, during diffusion respiration (Draper & others), 8: 524

- analysis  
a portable mass spectrometer for (Buckley & others), 13: 455  
quantitative, of mixtures (Faulconer & Ridley), 11: 265  
by thermal conductivity (c.c.), 20: 884  
blood, effect of endotracheal tube size (Beecher), 11: 730  
encountered in warfare (Friend & Tovell), 3: 546  
flow, physics of (Macon & Bruner), 11: 313  
inhaled, concentration of in semiclosed anesthesia systems (Ruben), 14: 459  
inorganic, in anesthesiology (Adriani & Batten), 3: 560  
uptake in body, factors governing (Kety), 11: 517
- Gas Cylinders: see under Apparatus
- Gastric: see Stomach
- Gastric tube, insertion in unconscious patient (c.c.), 4: 81
- Gastric intubation (corr.), 13: 229
- Gastrointestinal tract  
a comparative study of the action of various anesthetic agents on the muscles of the colon in the dog (Van Liere & others), 5: 597  
the control of tone and motility with novatropine (Martin & Batterman), 1: 300  
role of hypoxia in gastrointestinal effects of anesthesia (Van Liere), 5: 400
- GAUDINO, M., see CRAWFORD, E. J., jt. auth.
- GAUL, L. E., Cross sensitization from para-aminobenzoate in sunburn preventives, 16: 606
- GEDDES, I. C., and QUASTEL, J. H., Effects of local anesthetics on respiration of rat brain cortex *in vitro*, 17: 666
- Gelatin-dextrose to prolong effects of curare (Heringman & others), 9: 506
- GENAUER, M. B., Postoperative heat stroke, 7: 302
- General Anesthesia: see Anesthesia, general
- GERARD, R. W., Anesthetics and cell metabolism, 8: 453
- GERARD, R. W., Physiology of pain: abnormal neuron states in causalgia and related phenomena, 12: 1
- Geriatrics  
anesthesia in (Baird), 4: 17  
anesthetic problems of (Foldes), 11: 737
- GERLICH, N. A., NICHOLS, P. S., and BAL-LINGER, C. M., Heat sterilization of spinal anesthesia ampuls (abs.), 18: 164
- GERLICH, N. A., NICHOLS, P. S., and BAL-LINGER, C. M., Heat sterilization of spinal anesthetic ampuls, 19: 394
- GERTNER, S. B., LITTLE, D. M., and BONNY-CASTLE, D. D., Urinary excretion of Arfonad by patients undergoing "controlled hypotension" during surgery, 16: 495
- GHARIB, A., see TAYLOR, H. E., jt. auth.
- GIARMAN, N. J., ROWE, R. P., and YOUNG, J. F., The effect of sodium succinate and some of its derivatives on thiopental anesthesia, 15: 122
- GIBBON, J. H., see NEALON, T. F., jt. auth.
- GIESE, M., see CORSEN, G., jt. auth.
- GILBERT, A. J., see BODANSKY, M., jt. auth.
- GILBERT, R. G. B., see DOBKIN, A. B., jt. auth.
- GILL, R. C., Curare: misconceptions regarding the discovery and development of the present form of the drug, 7: 14
- GILLESPIE, H. A., Relaxation: a meditative essay, 1: 292
- GILLESPIE, N. A., and CONROY, W. A., Endotracheal anesthesia: the relation of nasotracheal and orotracheal intubation to respiratory morbidity, 2: 28
- GILLESPIE, N. A., see SAKLAD, M., jt. auth.
- GILLESPIE, N. A., see WATERS, R. M., jt. auth.
- GILLIES, D. M., see ROBSON, J. G., jt. auth.
- GILLIOM, L. A., see MOUSEL, L. H., jt. auth.
- GINTER, G. C., see EGBERT, L. E., jt. auth.
- GIRADO, M., see PURPURA, D. P., jt. auth.
- GITTELSON, L. A., The use of cell suspensions to determine the cytotoxicity of local anesthetics, 10: 202
- GITTELSON, L. A., see CASSELS, W. H., jt. auth.
- GIVEN, J. B., see LITTLE, D. M., jt. auth.
- GLAS, W. W., see MONTMORENCY, F. A., jt. auth.
- GLEES, P., see ACHESON, F., jt. auth.
- GLESNE, O. G., Lumbar puncture headaches, 11: 702
- GLOTTIS, respiratory obstruction at glottic level (Snyder and Gants), 14: 195
- Glucose  
with Nupercaine for spinal anesthesia (Roman & Adriani), 10: 270  
with Pontocaine for spinal anesthesia (Sergent & Driggs), 10: 260
- Glutethimide, anesthetic agent (abs.), 20: 137
- GOEBEL, J., see PETERSON, M. C., jt. auth., 4
- Goiter, toxic, effect of atropine and scopolamine on subsequent injection of epinephrine in thyrotoxic and euthyroid patients (Sarnoff & Cope), 15: 484
- GOLD, L. H., and GAROFALO, M. L., The treatment of aphonia by the intravenous administration of Pentothal sodium, 1: 94
- GOLD, M. I., and BEUCHEL, D. R., Translaryngeal anesthesia: a review, 20: 181
- GOLD, M. I., and STONE, H. H., The tranquilizing drugs: a classification and pharmacological survey, 18: 357
- GOLDBAUM, L. R., and HUBBARD, T. F., The effects of picrotoxin on thiopental metabolism and on the *in vitro* respiration of brain tissue in mice, 11: 733
- GOLDBAUM, L. R., see SCHACK, J. A., jt. auth.
- GOLDBERG, J. E., and HAMILTON, W. K., Blood ammonia levels during ether and cyclopropane anesthesia, 20: 836
- GOLDEN, J. B., see STEPHEN, C. R., jt. auth.
- GOLDEN, R. F., and MANN, F. C., Effects of drugs used in anesthesiology on the tone and motility of the small intestine: an experimental study, 4: 577
- GOLDENBERG, I. S., see GREENE, N. M., jt. auth.
- GOLDENSOHN, E. S., see SCHWEISS, J. F.
- GOLDFEIN, J., see CILIBERTI, B. J., jt. auth.

- GOLDMAN, M., see PALLIN, I. M., jt. auth.
- GOLDSMITH, M., see GREENE, B. A., jt. auth.
- GOLF, analogy to anesthesia (edit.), 3: 683
- GOODMAN, L. S., see SMITH, S. M., jt. auth.
- GOOTEE, J. E., see VIRTUE, R. W., jt. auth.
- GORDH, T., A new, simple and practical needle for intravenous anesthesia, 6: 258
- GORDH, T., and ÅSTRÖM, A., Respiratory effects of oxygen deficiency and carbon dioxide excess during ether and barbiturate anesthesia in the dog, 16: 245
- GORDH, T., LINDERHOLM, H., and STRÖM, G., A transient attack of ventricular fibrillation during right heart catheterization, 17: 358
- GORDH, T., and RYDIN, H., Question of cerium oxalate as a prophylactic against post-operative vomiting, 7: 526
- GORDON, G. S., see VIRTUE, R. W., jt. auth.
- GORDON, J., A new relaxing agent, WIN 2747: A clinical evaluation, 14: 73
- GORDON, J. R., see CEDARLEAF, S. J., jt. auth.
- GORDON, J. R., see VAN BERGEN, F. H., jt. auth.
- GORDON, R. A., Bilateral nasotracheal intubation for closed system anaesthesia, 5: 186
- GORDON, R. A., Problems of anaesthesia in plastic surgery, 3: 507
- GORDON, R. A., and AINSLIE, E. H., Experience with vinyl-plastic endotracheal tubes, 6: 359
- GORDON, R. A., and MORTON, M. V., Trichloroethylene in obstetrical analgesia and anaesthesia, 12: 680
- GOULD, R. B., Anaesthesia for the patient in shock, 5: 129
- GOVIER, W. M., see WINBURY, M. M., jt. auth.
- GRACA, J. C., and GARST, E. L., Early blood changes in dogs following intravenous pentobarbital anesthesia, 18: 461
- GRADY, R. W., STOUGH, J. A., and ROBINSON, E. B., A survey of spinal anesthesia from 1949 through 1952, 15: 310
- GRAF, J. P., see KRUEGER, J. E., jt. auth.
- GRAF, J. P., see STOETLING, V. K., jt. auth.
- GRANT, C. W., see PEIFFER, C. C., jt. auth.
- GRANT-WHYTE, H., Presidential address: The Medical Association of South Africa (edit.), 19: 82
- Granuloma: see also Complications  
contact ulcer, and other laryngeal complications of endotracheal anesthesia (Jackson), 14: 425  
laryngeal (corr.), 16: 295  
of larynx (case report), 9: 554
- GRAUBARD, D. J., and PETERSON, M. C., The therapeutic uses of intravenous procaine, 10: 175
- GRAUBARD, D. J., ROBERTAZZI, R. W., and PETERSON, M. C., Method for accurately measuring the rate of flow of intravenous fluids, 8: 372
- GRAUBARD, D. J., ROBERTAZZI, R. W., and PETERSON, M. C., Microdetermination of blood levels of procaine hydrochloride after intravenous injection, 8: 236
- Gravity, role in spinal anesthesia (Lund & Cameron), 6: 565
- GRAY, C. E., see BENNETT, H. A., jt. auth.
- GRAY, H. K., see ADAMS, R. C., jt. auth.
- GRAY, I., see RINK, R. A., jt. auth.
- GRAY, T. C., and WILSON, F., The development and use of muscle relaxants in the United Kingdom, 20: 519
- GREELEY, P. O., see THIENES, C. H., jt. auth.
- GREEN, H. D., Shock, 3: 611
- GREEN, H. D., see NGAI, S. H., jt. auth.
- GREEN, H. D., NGAI, S. H., SULAK, M. H., CROVZ, J. B., and SLOCUM, H. C., Effects of anesthetic agents on hepatic structure and function in dogs, 20: 776
- GREEN, M. W., and KOPFANYI, T., Studies on barbiturates, XXVII. Tolerance and cross tolerance to barbiturates, 5: 329
- GREENE, B. A., A 26 gauge lumbar puncture needle: its value in the prophylaxis of headache following spinal analgesia for vaginal delivery, 11: 464
- GREENE, B. A., Hazard of fire and explosion in anesthesia, 2: 144
- GREENE, B. A., Place of leather-soled shoes in the prevention of anesthetic explosions, 13: 203
- GREENE, B. A., and BERKOWITZ, S., The prevention of atelectasis or pneumonia following abdominal operations, 14: 166
- GREENE, B. A., BERKOWITZ, S., FELDMAN, E., GOLDSMITH, M., and ROBBINS, B., Spinal analgesia with Lucaine: a critical appraisal based on 6,000 cases, 17: 165
- GREENE, B. A., BERKOWITZ, S., and GOLDSMITH, M., The prevention of cranial nerve palsies following spinal anesthesia, 15: 302
- GREENE, B. A., and GOLDSMITH, M., Obstetrics for the anesthesiologist, 11: 110
- GREENE, B. A., see BERKOWITZ, S., jt. auth.
- GREENE, B. A., see FELDMAN, E., jt. auth.
- GREENE, N. M., Area of differential block in spinal anesthesia with hyperbaric tetracaine, 19: 45
- GREENE, N. M., The pharmacology of local anesthetic agents, with special reference to their use in spinal anesthesia, 16: 573
- GREENE, N. M., DAVIS, M. T., and BELL, J. K. S., Effects of general anesthetics on tissue oxygen tension in man: skin, 20: 830
- GREENE, N. M., and GOLDENBERG, I. S., The effect of anesthesia on thyroid activity in humans (abs.), 20: 125
- GREENE, N. M., and WHITTAKER, D. J., Duration of action of pentobarbital as influenced by ether anesthesia in rats (abs.), 18: 165
- GREENE, N. M., see BAEKELAND, F., jt. auth.
- GREENFIELD, I., Convulsions during ether anesthesia controlled by curare (Intocostrin), 7: 299
- GREENHILL, J. P., Shall spinal anesthesia be used in obstetrics?, 11: 283
- GREGORY, J. E., The pathology of sudden and unexpected death under anesthesia (edit.), 10: 105

- GREIF, E. W., RICHARDS, R. C., and ALEXANDER, F. A. D., Anesthesia for thoracoplasty: the use of a Pentothal-curare mixture supplemented with nitrous oxide-oxygen. Preliminary report, 9: 637
- GREIFENSTEIN, F. E., see HARRIS, L. C., jt. auth.
- GREIFENSTEIN, F. E., see KING, B. D., jt. auth.
- GREISHEIMER, E. M., ELLIS, D. W., MAKARENKO, L., and STEWART, G. H., Effect of morphine and cyclopropane upon cardiovascular functions in the dog, 18: 196
- GREISHEIMER, E. M., ELLIS, D. W., MAKARENKO, L., and STEWART, G. H., Effect of morphine and thiopental sodium-oxygen upon cardiovascular functions in the dog, 17: 798
- GREISHEIMER, E. M., ELLIS, D. W., STEWART, G. H., and MAKARENKO, L., Effect of morphine and ether upon cardiovascular functions in the dog, 18: 73
- GREISHEIMER, E. M., ELLIS, D. W., STEWART, G. H., MAKARENKO, L., OLEKSYSHYN, N., and THOMPSON, K. T., Cardiovascular responses to several ultrashort acting barbiturates, 17: 385
- GREISHEIMER, E. M., OPPENHEIMER, M. J., ELLIS, D. W., LYNCH, P. R., and SHAPIRO, L., The effect of ether on cyclopropane-epinephrine arrhythmias, 15: 51
- GREISHEIMER, E. M., see SOKALCHUK, A., jt. auth.
- GREM, F. M., see DONNELLY, W. A., jt. auth.
- GRIFFITH, H. R., Anesthesia service for small hospitals, 3: 553
- GRIFFITH, H. P., Cyclopropane—a clinical evaluation, 12: 109
- GRIFFITH, H. R., On friendship (edit.), 19: 88
- GRIFFITH, H. R., Plea for the "Art of Anesthesia" (edit.), 12: 500
- GRIFFITH, H. R., A world federation of anesthesiologists (edit.), 15: 202
- GRIFFITH, H. R., and JOHNSON, C. G., Use of curare in general anesthesia, 3: 418
- GRIFFITH, H. R., and MACLEOD, E. J., Ethyl-normal-propyl ether: a satisfactory general anesthetic agent for intranasal surgery, 8: 615
- GRIFFITH, H. R., STEPHEN, C. R., CULLEN, W. G., and BOURNE, W., Myanesisin as a muscle relaxant, 10: 61
- GRIFFITH, H. R., see HOSEIN, E. A., jt. auth.
- GRIFFITH, H. R., see ROBSON, J. G., jt. auth.
- GRIGGS, T. S., see ADRIANI, J., jt. auth.
- GRIMM, J. E., and KNIGHT, R. T., An improved intratracheal technic, 4: 6
- GRISWOLD, H. E., see YOUNG, W. B., jt. auth.
- GROLLMAN, A. I., see ABRAMSON, D. I., jt. auth.
- GROSS, A., Genesis and interpretation of the electrocardiogram, 15: 378
- GROSS, E. G., and CULLEN, S. G., Action of curare on the smooth muscle of the small intestine and on the blood pressure, 6: 231
- GROSS, E. G., HOLLAND, H., CARTER, H. R., and CHRISTENSEN, E. M., The role of epinephrine in analgesia, 9: 459
- GROSS, E. G., see KEASLING, H. H., jt. auth.
- GROSS, E. G., see PITTINGER, C. B., jt. auth.
- GROSS, E. G., see PRICKETT, M. D., jt. auth.
- GROSS, G. L., Decontamination of anesthesia apparatus, 16: 903
- GROSSKREUTZ, D. C., see DAVIS, D. A., jt. auth.
- GROSSKREUTZ, D. C., see TAIT, C. A., jt. auth.
- GROSSKREUTZ, D. C., see STEPHEN, C. R., jt. auth.
- GROSSMAN, A. A., see DONNELLY, W. A., jt. auth.
- GROVE, D., see RUTH, H. S., jt. auth.
- GROVE, J. S., see FAULCONER, A., jt. auth.
- GRUBER, C. M., STOELTING, V. K., FORNEY, R. B., WHITE, P., and DEMEYER, M., Comparison of an ultrashort acting barbiturate (22451) with thiobarbiturates during anesthesia, 18: 50
- GRUBER, C. M., see HALBEISEN, W. A., jt. auth.
- GRUENWALD, C., and SWORD, B. C., A review of anesthetic procedures employed in 1,016 major thoracic operations for pulmonary tuberculosis: complications and sequelae, 10: 295
- GUEDEL, A. E., Cyclopropane anesthesia, 1: 13
- GUEDEL, A. E., see THIENES, C. H., jt. auth.
- GUERNSEY, G., see LORHAN, P. H., jt. auth.
- GUEST, S. I., MANN, L. S., and SEARLES, P. W., The immediate effects of spinal Pontocaine anesthesia on blood volume in man, 10: 289
- GUILD, C. H., Problems of anesthesia in thoracic surgery, 12: 733
- GUNN, GRACE, see NEFF, W., jt. auth.
- GUNTER, R., see DILLON, J. B., jt. auth.
- GUNTER, R., see SABAWALA, P., jt. auth.
- GUTTMAN, S. A., and PARDEE, I., Spinal cord level syndrome following intrathecal ammonium sulfate and procaine hydrochloride. A case report with autopsy findings, 5: 347
- GUY, E. P., HAMILTON, W. K., KEASLING, H. H., and KNOTT, J. R., Some effects of hypoxapnea on the development of ether anesthesia in the dog, 20: 55
- GWATHMEY, J. T., Story of oil-ether colonic anesthesia, 3: 171
- GWATHMEY, obituary (Foregger), 5: 296
- HAAS, H. B., HIRSHMAN, H. J., and ROMBERGER, F. T., Cyclopropane-air anesthesia, 1: 31
- HADFIELD, D., see BONICA, J. J., jt. auth.
- HAGGARD, H. W., The place of the anesthetist in American medicine, 1: 1
- HAGGART, J., see WOODS, L. A., jt. auth.
- HAID, B., see MORRIS, L. E., jt. auth.
- HALBEISEN, W. A., GRUBER, C. M., JR., and GRUBER, C. M., A study on the comparative depressant effects of hypnotic drugs (Medomin, Seconal and phenobarbital) on heart muscle and cardiac vagus nerve, 10: 585
- HALE, D. E., Controlled hypotension, 16: 1
- HALE, D. E., Controlled hypotension by arterial bleeding during operation and anesthesia, 9: 498



- HALE, D. E., MORACA, P. P., and WASMUTH, C. E., Elective cardiac arrest during craniotomy. Summary of 37 cases, **18**: 378
- HALE, D. E., and SHAAR, C. M., Continuous spinal anesthesia, **5**: 53
- HALE, D. E., and SHAAR, C. M., Splanchnic anesthesia in gastric surgery, **3**: 392
- HALE, D. E., see CURRY, G. W., jt. auth.
- HALEY, F. C., see WYANT, G. M., jt. auth.
- HALFORD, F. J., Critique of intravenous anesthesia in war surgery, **4**: 67
- HALL, H., see STEPHEN, C. R., jt. auth.
- HALL, K. D., BALDWIN, M., and NORRIS, F., Succinylcholine drip during craniotomy, **20**: 65
- HALL, K. D., GARLINGTON, L. N., NOWILL, W. K., and STEPHEN, C. R., The analysis of small concentrations of trichloroethylene vapor by interferometry, **14**: 38
- HALL, K. D., and NORRIS, F. H., JR., Fluothane sensitization of dog heart to action of epinephrine, **19**: 631
- HALL, K. D., and NORRIS, F. H., Respiratory and cardiovascular effects of Fluothane in dogs, **19**: 339
- HALL, K. D., see NORRIS, F. H., jt. auth.
- HALL, W. M., see BONICA, J. J., jt. auth.
- HALLOWELL, P., MURPHY, J. T., and MANGIARACINE, A. B., Sterilization of ampuls with ethylene oxide, **19**: 665
- Halogen, substitution, influence of, on toxicity of local anesthetic agents (Foldes & others), **17**: 187; (correction), **17**: 296
- Halothane (Fluothane)  
acid-base balance, effect on (Dobkin), **20**: 10  
anesthesia  
  blood pressure and pulse rate during (Moyers & Pittinger), **20**: 605  
  circulatory and respiratory effects of Fluothane (Burnap & others), **19**: 307  
  depression of myocardium and of total body oxygen consumption by (abs.), **19**: 113; (Severinghaus & Cullen), **19**: 165  
  respiratory studies during (Devine & others), **19**: 11  
  properties (Krantz & others), **19**: 38  
  cardiovascular and respiratory effects (abs.), **19**: 106  
  case report (c.c.), **19**: 90  
  clinical  
    appraisal (abs.), **19**: 93  
    experience (Stephen & others), **19**: 197  
  in closed circuit anesthesia (Robson & others), **20**: 251  
  hepatic function following (abs.), **19**: 105  
  inhalers (abs.), **19**: 109; (Ngai & others), **19**: 488  
  laboratory observations (Stephen & others), **19**: 770  
  neuromuscular effects of (Watland & others), **18**: 883  
  observations during experimental and clinical use (Virtue & others), **19**: 478  
  postoperative death after (c.c.), **19**: 562  
  preliminary report (abs.), **18**: 174  
  properties (Krantz & others), **19**: 38  
  respiratory  
    and cardiovascular effects of (Hall & Norris), **19**: 339  
    studies during (Devine & others), **19**: 11  
  sensitization of dog heart to epinephrine (Hall & Norris), **19**: 631  
  vaporization of, in Copper Kettle (Feldman & Morris), **19**: 650  
  vaporizers  
    performance characteristics of (Fabian & others), **20**: 27  
    simple and accurate (c.c.), **19**: 284
- HALPERN, A. I., see ANSBRO, F. P., jt. auth.
- HAMELBERG, W., see JACOB, J., jt. auth.
- HAMELBERG, W., see REED, J. P., jt. auth.
- HAMILTON, W. K., and CULLEN, S. C., Effect of levallorphan tartrate upon opiate induced respiratory depression, **14**: 550
- HAMILTON, W. K., and CULLEN, S. C., Supplementation of nitrous oxide anesthesia with opiates and a new opiate antagonist, **16**: 22
- HAMILTON, W. K., and EASTWOOD, D. W., A new method of depicting resistance of inhalation anesthetic equipment, **17**: 222
- HAMILTON, W. K., and EASTWOOD, D. W., A study of denitrogenation of some inhalation anesthetic systems, **16**: 861
- HAMILTON, W. K., see CLAPPISON, G. B., jt. auth.
- HAMILTON, W. K., see DEVINE, J. C., jt. auth.
- HAMILTON, W. K., see EGER, E. I., jt. auth.
- HAMILTON, W. K., see GOLDBERG, J. E., jt. auth.
- HAMILTON, W. K., see GUY, E. P., jt. auth.
- HAMILTON, W. K., see LOEHNING, R. W., jt. auth.
- HAMILTON, W. K., see RENCE, W. G., jt. auth.
- HAMLIN, H., see BRAZIER, M. A. B., jt. auth.
- HAMMETT, H. H., see HAMPTON, L. J., jt. auth.
- HAMPTON, L. J., and LOEHNING, R. W., Experiences with anesthesia in an Army hospital in New Guinea, **6**: 173
- HAMPTON, L. J., LITTLE, D. M., and FULLER, E. M., The use of succinylcholine to facilitate endotracheal intubation, **14**: 382
- HAMPTON, L. J., LITTLE, D. M., RODABAUGH, G. S., and CHAFFEE, W. R., Studies concerning the prolongation of activity of succinylcholine, **16**: 67
- HAMPTON, L. J., see CHASE, H. F., jt. auth.
- HAMPTON, L. J., see LITTLE, D. M., jt. auth.
- HAMPTON, L. J., see McMILLEN, N. R. J., jt. auth.
- HAND, L. V., Subarachnoid ammonium sulfate therapy for intractable pain, **5**: 354
- HANDLEY, C. A., and ENSBERG, D. L., Comparison of amphetamine sulfate with other stimulants of the central nervous system in morphine respiratory depression, **6**: 561
- HANDLEY, C. A., see ABREU, B. E., jt. auth.
- HANKS, E. C., see DRIPPS, R. D., jt. auth.
- HANKS, E. C., see NGAI, S. H., jt. auth.
- HARALDSON, S., Headache after spinal anesthesia: experiments with a new spinal needle, **12**: 321
- HARDY, J. D., see JAVERT, C. T., jt. auth.



- HARKEN, D. E., and NORMAN, L. R., The control of cardiac arrhythmia during surgery, 11: 321
- HARLESS, M., see LORHAN, P. H., jt. auth.
- HARMEL, M. H., and LAMONT, A., Anesthesia in the surgical treatment of congenital pulmonary stenosis, 7: 477
- HARMEL, M. H., VANDAM, L. D., and LAMONT, A., An attempt to prolong sympathetic block with Bromsalizol in polyethylene glycol, 8: 266
- HARMEL, M. H., see CONVERSE, J. G., jt. auth.
- HARMEL, M. H., see HARRIS, L. M., jt. auth.
- HARMEL, M. H., see IKEZONO, E., jt. auth.
- HARMEL, M. H., see LANDMESSER, C. M., jt. auth.
- HARMEL, M. H., see POLLOCK, P., jt. auth.
- HARNAGEL, D., see ELDER, J. D., jt. auth.
- HARNAGEL, D. L. A., see WU, J. J., jt. auth.
- HARRIS, A. J., The management of anesthesia for congenital heart operations in children, 11: 328
- HARRIS, L. C., JR., and DRIPPS, R. D., The use of decamethonium bromide for the production of muscular relaxation, 11: 215
- HARRIS, L. C., PARRY, J. C., and GREIFENSTEIN, F. E., Dyclonine—a new local anesthetic agent: clinical evaluation, 17: 648
- HARRIS, L. C., see KING, B. D., jt. auth.
- HARRIS, L. M., and HARMEL, M. H., The comparative incidence of postlumbal puncture headache following spinal anesthesia administered through 20 and 24 gauge needles, 14: 390
- HARRIS, Z., see TEPLINSKY, L. L., jt. auth.
- HARROUN, P., BECKERT, F. E., and HATHAWAY, H. R., Curare and nitrous oxide anesthesia for lengthy operations, 7: 24
- HART, E. R., and WEAVER, O. M., JR., The analgesic and hypnotic actions of barbiturates, 9: 276
- HASTINGS, E. P., see ANYLAN, F., jt. auth.
- HATHAWAY, H. R., see HARROUN, P., jt. auth.
- HATHAWAY, H. R., see STORMONT, R. T., jt. auth.
- HATTOX, J. S., SAARI, J. M., and FAULCONER, A., Analysis of gases in blood with the mass spectrometer. III. A method for the determination of nitrous oxide in blood, 14: 584
- HAUGEN, F. P., Laboratory investigation of pain (preliminary report), 14: 456
- HAUGEN, F. P., Recent advances in the neurophysiology of pain, 16: 490
- HAUGEN, F. P., COPPOCK, W. J., and BERQUIST, H. C., Nitrous oxide hypalgesia in trained subjects, 20: 321
- HAUGEN, F. P., and LIVINGSTON, W. K., Experiences with the Hardy-Wolff-Goodell dolorimeter, 14: 109
- HAUGEN, F. P., and MELZACK, R., The effects of nitrous oxide on responses evoked in the brain stem by tooth stimulation, 18: 183
- HAUGEN, F. P., RUTH, H. S., and TAYLOR, I. B., Serial spinal anesthesia, 3: 52
- HAUGEN, F. P., see KENNARD, M. A., jt. auth.
- HAUSLER, L. M., see WINBURY, M. M., jt. auth.
- HAWK, M. H., ORTH, O. S., and POHLE, F. J., Hepatorenal syndrome following administration of vinethene, 2: 388
- HAWK, M. H., and WANGEMAN, C. P., Effects of Nembutal (sodium pentobarbital) and scopolamine on human subjects, 4: 238
- HAWK, M. H., see WANGEMAN, C. P., jt. auth.
- HAY, R. C., Chemical rhizotomy versus cordotomy for intractable pain (abs.), 19: 102
- HAYNES, W. G., and SMITH, F. A., Cervical arachnoiditis occurring after spinal anesthesia, 3: 444
- HAYS, H. W., and CUMMINGS, J. R., Cardiovascular studies of adrenergic and ganglionic stimulating drugs administered during cyclopropane, 17: 314
- HAYES, M. A., Trauma and water requirements (edit.), 18: 899
- HAZLETON, L. W., and KOPFANYI, T., Combined action of morphine and central stimulants and its relation to the treatment of morphine poisoning, 2: 427
- Head, device for support of, during tonsillectomy and adenoidectomy (c.c.), 16: 146
- Head and Neck  
anesthesia, complications of, during radical surgery about head and neck (Schweizer), 16: 927
- cheiloplasty, orotracheal anesthesia for (Slocum & Allen), 6: 355
- cleft palate surgery, anesthesia for (Leigh & Kester), 9: 32
- fenestration, anesthetic procedures for (Stubbensy), 14: 303
- facial and jaw injuries, anesthesia for (Roche), 7: 233
- intranasal surgery, ethyl-normal propyl ether, a satisfactory agent for (Griffith & MacLeod), 8: 615
- Ludwig's angina (abscess of the submandibular space), anesthesia for (Bennett), 4: 25
- mandible, fractured, anesthesia for (Hershey & Rovenstine), 9: 381
- maxillo-facial surgery  
anesthesia for (Collins), 9: 62
- anesthesia for (Thornton & Rowbotham), 6: 580
- regional anesthesia for operations about the head and neck (Mousel), 2: 61
- rhinoplasty, experiences with general anesthesia (Tamerin & DePolo), 13: 94
- Headache: see also Complications  
atypical cephalalgia of cervical origin, use of cervical plexus block in diagnosis and management of (Penetcost & Adriani), 16: 726
- postspinal  
postspinal (Glesne), 11: 702
- etiology and prevention (Krueger & others), 12: 477
- experiments with a new needle (Haraldson), 12: 321
- incidence of, with a 27 gauge needle (Cann & Wycoff), 11: 294

- occurrence of, after lumbar puncture, technique to minimize by use of small bore spinal needles (Wetchler & Brace), 16: 270
- prevention of, use of epidural saline (Kaplan & Arrowood), 13: 103
- prophylaxis of, with a 26 gauge needle (Greene), 11: 464
- postlumbar puncture, following spinal anesthesia (Harris & Harmel), 14: 390
- severe spinal, unflexed back and low incidence of (Rosser & Schneider), 17: 288
- treatment of, with intravenous ethanol (Deutsch), 13: 496
- treatment of, with peridural and subarachnoid saline (Rice & Dabbs), 11: 17
- Head-up Tilt, and intravenous hexamethonium bromide, effect on cerebral circulation and metabolism of acute reduction in blood pressure by means of (Stone & others), 16: 168
- HEARD, K. M., The benefits and hazards of Pentothal anesthesia, 5: 448
- HEARD, R. D. H., see SELYE, H., jt. auth.
- Heart: see also Cardiovascular System
- acetylcholine, cardiac response to, effect of nebutal anesthesia on (Teitelbaum & Gantt), 16: 261
- action, control of during anesthesia (Harken & Norman), 11: 321
- actions, special method for recording, cairivibograph and vibogram (Jackson), 16: 536
- arrest
- during chloroform monitored by electroencephalogram and electrocardiogram (c.c.), 18: 504
- elective, during cardiotomy (Hale & others), 18: 378
- etiological considerations with reports of seventeen cases (Bergner), 16: 177
- in patients with complete heart block during anesthesia and operation (abs.), 18: 175
- poster (c.c.), 17: 624
- poster (corr.), 18: 343
- arrhythmias
- centrally induced irregularities, hypothermic potentiation of (Purpura & others), 19: 27
- effect of procaine on cardiac disturbances during anesthesia (Burstein), 10: 133
- effect of intravenous procaine on acute arrhythmias during anesthesia (Burstein), 7: 113
- epinephrine induced in dog during anesthesia (Morris & others), 14: 153
- produced by mechanical stimulation during hypothermia (abs.), 19: 113
- artificial: see Oxygenator
- ballistocardiogram: see also Heart, cardiac output
- aid in evaluation of anesthetic and surgical risk (Wang & Howland), 17: 578
- beat
- origin of, relation of anesthesia to, in the excised chick heart (Seifriz & Ross), 5: 589
- visual and auditory monitoring of (c.c.), 17: 748
- block, circulatory arrest in patients with, during anesthesia and operation (abs.), 18: 175
- cardio-circulatory effect of muscle relaxants during cyclopropane anesthesia (abs.), 20: 131
- catheterization
- anesthesia for, in infants and children (Keown & others), 18: 270
- diagnostic, anesthesia for children undergoing (Fieldman & others), 16: 868
- general anesthesia for (Eggers & others), 20: 817
- right heart, transient attack of ventricular fibrillation during (Gordh & others), 17: 358
- cycle, measurement of electrical and mechanical events during cyclopropane anesthesia (abs.), 20: 132
- diffusion respiration, effect on (Parry & others), 10: 615
- disease
- choice of anesthesia in (Belinkoff), 7: 268
- choice of anesthesia, influence on (Mousel), 11: 495
- congenital, anesthetic management of infants and children with double aortic arch (abs.), 18: 176
- relation to anesthetic (Reid), 2: 161
- effect of
- anesthetics on (Acierno & Di Palma), 12: 567
- anesthetics on (Fisher & others), 12: 19
- cyclopropane anesthesia (Thienes), 2: 611
- cyclopropane anesthesia on cardiac output and related hemodynamics (Li & Etsten), 18: 15
- deuterocarbons on (Carr & others), 12: 230
- hypnotics on (Halbeisen & others), 10: 585
- intravenous procaine on (Long & others), 10: 406
- intrathecal vasoconstrictor on, during cyclopropane (Howard & others), 11: 694
- Pentothal on (corr.), 9: 317
- pituitrin on (Parsloe & others), 11: 76
- preanesthetic medication on cardiovascular force (Malt), 19: 353
- premedication with procaine amide (Burstein), 13: 510
- procaine on (Wedd & Blair), 12: 261
- electrical activity after "clinical death" (Sabawala & others), 18: 236
- electrocardiogram
- apparatus, new (c.c.), 17: 376
- changes during
- ethyl chloride and vinyl ether anesthesia in the dog and man (Bush & others), 13: 197
- extubation (Converse & others), 13: 163
- contributions to anesthesia during chest surgery (Fisher & Winsor), 13: 147
- during diffusion respiration (Parry & others), 10: 615

- during induction with ethyl chloride, ether, Vinethene, and cyclopropane (Virtue & Pierce), 12: 442
- effects of intravenous administration of neostigmine and atropine during cyclopropane anesthesia (Jacobson & Adelman), 15: 407
- genesis and interpretation (Cross), 15: 378
- studies
  - during endotracheal intubation
    - effects of
      - anesthesia with thiopental sodium combined with muscle relaxant (Rosner & others), 14: 591
      - cyclopropane or cyclopropane-ether and procaine amide (Peters & others), 12: 673
      - Evipal sodium induction (Dance & others), 17: 730
    - general anesthesia
      - and diethylaminoethanol (Burstein & others), 12: 411
      - and hexylcaine hydrochloride topical spray (Arcuri & others), 14: 46
      - and intravenous procaine (Burstein & others), 11: 299
      - and intravenous procaine amide (Burstein & others), 12: 411
    - usual routine techniques (Burstein & others), 11: 224
  - during induction of anesthesia (Virtue & Pierce), 12: 442
  - of tracheo-cardiac reflex during analgesia with nitrous oxide and relaxants (abs.), 19: 103
- electrocardiography, evaluation of, during congenital heart surgery (Smith & Wiley), 18: 398
- exploration of, prolonged apnea following (case report), 15: 441
- Fluothane sensitization of, to epinephrine (Hall & Norris), 19: 631
- force responses to pressor amines during hypotension produced by hexamethonium (Cotten & others), 15: 126
- function
  - during anesthesia (Eather & others), 10: 125
  - range of normals (Nathan & Scialli), 16: 816
- hemodynamic effects of chlorpromazine, including cardiac work and coronary blood flow (Maxwell & others), 19: 64
- herniation of (case report), 12: 774
- hypothermia and coronary perfusion for surgery of atrial and valvular defects (Colgan & others), 20: 811
- monitor (corr.), 18: 343
- monitoring (c.c.), 20: 217
- morphine, action of, in slowing the heart rate of unconditioned dogs (Allen & others), 6: 149
- oculo reflex in eye muscle surgery (Bosomworth), 19: 7
- output
  - by ballistocardiograph during thiopental-nitrous oxide-oxygen anesthesia (Pollock & others), 16: 970
- effect of positive pressure (Watrous & others), 11: 661
- pacemaker (c.c.), 19: 563
- pain (referred) relation of subcutaneous focal sensitivity to (Kennard & Haugen), 16: 297
- prolonged maintenance of coronary sinus catheters in dogs for study of myocardial metabolism (abs.), 20: 124
- propethylene, effect of (Evans & others), 6: 159
- rate and rhythm during steady levels of cyclopropane anesthesia at normal and elevated end-expiratory carbon dioxide tensions (Lurie & others), 19: 457
- rhythm in parturient woman, effect of cyclopropane and oxytocics on (Ichibanagi & Morris), 20: 669
- rhythm of dog, effects of steroid anesthesia upon (Traina & others), 17: 787
- sounds
  - amplification of (c.c.), 18: 790
  - during anesthesia with cyclopropane or ether (Rence & others), 17: 26
- surgery
  - anesthesia for, in children (Harris), 11: 328
  - anesthetic problems in cardiopulmonary bypass for (Keats & others), 19: 501
  - anesthetic problems, in children (McQuiston), 10: 590
  - aortic insufficiency, problems of surgical correction of (O'Donnell & McDermott), 16: 343
  - cardio-pericardiopexy, problems encountered in anesthesia for (c.c.), 14: 208
  - circulatory factors affecting anesthesia in surgery for congenital disease of (Smith), 13: 38
  - comparison of anesthetics on incidence ventricular fibrillation in experimental hypothermic ventriculotomy (Anlyan & others), 19: 213
  - electrocardiography during evaluation of (Smith & Wiley), 18: 398
  - mitral commissurotomy anesthesia for (Pender), 14: 77
  - mitral commissurotomy anesthesia for (Sadove & others), 16: 133
  - patent ductus surgery, anesthesia for (Adelman), 9: 42
  - pulmonic stenosis, congenital, anesthesia for surgical correction of (Harmel & Lamont), 7: 477
  - renal function during (Morris & others), 20: 608
- tachycardia in children during surgery (Jackson), 9: 573
- trichlorethylene and cardiac rhythm (Waters & others), 4: 1
- vascular stimulant drugs in barbiturate depression of (Boniface & Brown), 14: 23
- ventricular fibrillation: see Ventricular Fibrillation
- work capacity, effect of cyclopropane (Moe & others), 10: 706

## Heat

- radiant, thresholds, effect of analgesics on (Keasling & Gross), 17: 809
- retention as a result of rebreathing (c.c.), 7: 203

stroke, postoperative (Genauer), 7: 302

HEBERT, C. L., Balanced anesthesia in thoracoplasty, 9: 537

HEBERT, C. L., see CARTER, A. R., jt. auth.

HEGE, F. B., and ORTH, O. S., Clinical and laboratory circulatory effects of trifluoroethylvinyl ether (abs.), 18: 166

HEGE, M. J. D., see ECKENHOFF, J. E., jt. auth.

HEHRE, F. W., Evaluation of positive pressure transfusions, 13: 621

Helium, value in preventing cyclopropane-oxygen explosions (Jones & Thomas), 2: 138

HELLER, E. L., see PATTERSON, R. L., jt. auth.

HELLER, M. L., KREUZER, F., and WATSON, T. R., Polarographic method for arterial oxygen tension studies during nitrous oxide-oxygen anesthesia (abs.), 20: 126

HELLER, M. L., and WATSON, T. R., Electrocardiographic studies of the tracheo-cardiac reflex during light analgesia with nitrous oxide and relaxants (abs.), 19: 103

HELIJAS, C. S., CORDER, V. W., MAURER, R. T., and KAY, R., Preoperative and postoperative respiratory studies, 13: 142

HELIJAS, C. S., and TOVELL, R. M., Trends in regional anesthesia, 9: 400

HELIJAS, C. S., TOVELL, R. M., and HOLT, K. R., Analgesia and anesthesia in obstetrics, 8: 113

HELLMAN, L. M., see HINGSON, R. A., jt. auth.

HELSWORTH, F. W., and SCHOTZ, S., Studies in the use of succinylcholine chloride (Anectine). I. Muscle relaxant in general anesthesia, 16: 1009

HELSWORTH, F. W., and SCHOTZ, S., Studies in the use of succinylcholine: II. Use of Anectine in major thoracic surgery, 17: 175

HELSWORTH, F. W., see SCHOTZ, S., jt. auth.

HELPERIN, S. W., and WASKOW, W. H., Bronchoscopy and laryngoscopy with the wrap-around chest respirator (abs.), 20: 127

HELICH, M., ECKENHOFF, J. E., JONES, R. E., and ROLPH, W. D., Influence of opiates on the respiratory responses of man to thiopental, 17: 459

HELICH, M., PAPPER, E. M., BRODIE, B. B., FINK, M., and ROVENSTINE, E. A., Effect of sympathomimetic amines on duration of procaine spinal anesthesia, 12: 595

HELICH, M., PAPPER, E. M., and ROVENSTINE, E. A., Surital sodium: a new anesthetic agent for intravenous use. Preliminary clinical evaluation, 11: 33

HELICH, M., see ECKENHOFF, J. E., jt. auth.

HELICH, M., see JONES, R. E., jt. auth.

## Hematocrit

- effect on cerebral circulation (Ketty), 10: 610
- values in guinea pigs, effect of pentobarbital on (Tabari & Becker), 19: 541

Hematoma, in psoas muscle, case report, 18: 651

HEMINGWAY, A., see BUCKLEY, J. J., jt. auth.

Hemiplegia, after ether anesthesia (Pisetsky), 6: 522

Hemodynamics: see also Blood, circulation  
sympatho-adrenal responses to general anesthesia and their relation to hemodynamics (Price & others), 20: 563

## Hemoglobin

changes in concentration of during anesthesia (Pender & Lundy), 5: 163

effect of pentobarbital on, in guinea pigs (Tabari & Becker), 19: 541

Hemolysis, after Myanesisin (Wyngaarden & others), 10: 529

Hemorrhage: see also under names of specific diseases and organs affected

circulation during, the digital plethysmograph as a guide (Foster & others), 6: 246

cyclopropane value of, in the management of patients with (Hershey & Rovenstine), 5: 149

ganglionic blockade and protective action in hemorrhage (Boba & Converse), 18: 559

obstetric, treatment by transfusion and norepinephrine (Cappe & Pallin), 12: 728

retrobulbar, from nasotracheal intubation, (c.c.), 20: 717

retroperitoneal, as a complication of lumbar paravertebral injections (case report), 12: 391

subarachnoid, following tracheobronchial suction and "stir-up" regimen, case report, 15: 211

HENDERSON, J. C., see TAYLOR, I. B., jt. auth.

HENDERSON, V. E., The substances causing vasoconstriction, 1: 323

HENNEMAN, D. H., and VANDAM, L. D., The metabolic consequences of epinephrine and insulin administered during ether anesthesia in man (abs.), 19: 104

HENNEMAN, D. H., and VANDAM, L. D., Effect of ether anesthesia on human skeletal muscle metabolism (abs.), 20: 128

Hepatotoxicity of inhalation anesthetic drugs (Jones & others), 19: 715

HERD, R. M., see BERGNER, R. P., jt. auth.

HERINGMAN, E. C., ADRIANI, J., and YAGER, B. B., Prolonging the effects of curare with gelatin-dextrose mixtures: a preliminary study, 9: 506

HERREROS, L. G., Regional anesthesia by the intravenous route (slight modification of Bier's method), 7: 558

HERRLICH, H. C., see MARTIN, S. J., jt. auth.

HERSHENSON, B. B., Premedication and anesthesia in obstetrics: Practical aspects, 9: 73

HERSHEY, S. G., LIN, M. K., and ZWEIFACH, B. W., Validity of features of decompensatory phase of shock as signs of irreversibility (abs.), 18: 166

HERSHEY, S. G., and ROVENSTINE, E. A., The anesthetic management of patients with fracture of the mandible, 9: 381

- 651 HERSHEY, S. G., and ROVENSTINE, E. A., The value of cyclopropane in the anesthetic management of patients with recent severe hemorrhage, 5: 149
- HERSHEY, S. G., and ZWEIFACH, B. W., Peripheral vascular homeostasis in relation to anesthetic agents, 11: 145
- HERSHEY, S. G., ZWEIFACH, B. W., and ANTROPOL, W., Factors associated with protection against experimental shock, 17: 265
- HERSHEY, S. G., ZWEIFACH, B. W., CHAMBERS, R., and ROVENSTINE, E. A., Peripheral circulatory reactions as a basis for evaluating anesthetic agents, 6: 362
- HERSHEY, S. G., ZWEIFACH, B. W., and METZ, D. B., An evaluation of the protective action of autonomic blocking agents in peripheral circulatory stress, 15: 589
- HERSHEY, S. G., ZWEIFACH, B. W., and ROVENSTINE, E. A., Effects of depth of anesthesia on behavior of peripheral vascular bed, 14: 245
- HERSHEY, S. G., see ROVENSTINE, E. A., jt. auth.
- HESSE, H., see RUBEN, H., jt. auth.
- HESSLSCHWERDT, D. W., and MEDBURY, S. E., Circulatory collapse following the combined use of Pituitrin and Pentothal, 10: 544
- HESSLSCHWERDT, D. W., RUSHIA, E. L., and CULLEN, S. C., Clinical evaluation of some new curare preparations, 12: 14
- HEWITT, R. M., Too much and too soon (edit.), 12: 767
- Hexabiscarbacholine (Imbretil): see also under Muscle Relaxants
- clinical study (Dripps & others), 20: 646
- neuromuscular activity of (Foldes & others), 20: 767
- quantitative study of action of, and its modification in man (Ngai & others), 20: 653
- Hexafluorenum Bromide (Mylaxen)
- neuromuscular blocking activity of, influence of anesthesia (Cavallito & others), 17: 547
- Hexafluorodiethyl Ether (Indoklon): see ether, hexafluorodiethyl
- Hexamethonium Bromide (Bismitrium; Esomid; Methium)
- controlled hypotension with—comparison with pendiomid on renal hemodynamics and electrolyte excretion, and effect of norepinephrine (Moyer & others), 16: 355
- heart force responses to pressor amines during hypotension produced by (Cotten & others), 15: 126
- induced hypotension, physiologic alterations associated with (Van Bergen & others), 15: 507
- intravenous, and head-up tilt, effect on cerebral circulation and metabolism of acute reduction in blood pressure by means of (Stone & others), 16: 168
- Hexobarbital Sodium (Evipal Sodium)
- curare with, for endotracheal intubation (Volpito and Benton), 11: 164
- effect of the various tissues on the detoxification of, in the dog (Martin & others), 1: 153
- induction of anesthesia with (Burstein), 13: 193
- induction, electrocardiographic studies during endotracheal intubation (Dance & others), 17: 730
- spinal anesthetic effects (Morrison & others), 12: 315
- with decamethonium bromide for endotracheal intubation (Volpito), 12: 648
- Hexylcaine Hydrochloride (Cyclaine)
- comparative local anesthetic qualities (Crawford), 14: 278, (correction), 14: 623
- in regional and topical anesthesia (Orkin & Roventine), 13: 465
- reaction, case report, 18: 653
- for spinal and regional nerve block (Anderson & Ruben), 13: 429
- topical anesthetic agent (c.c.), 14: 315
- topical spray, electrocardiographic studies during endotracheal intubation, effects during general anesthesia and (Arcuri & others), 14: 46
- HIBSHMAN, H. J., see HAAS, H. B., jt. auth.
- Hiccup, treatment of by prolonged nerve block (Sarnoff & Sarnoff), 12: 270
- HICKCOX, C. B., Education in anesthesiology (edit.), 20: 879
- HICKCOX, C. B., Horace Wells centenary (edit.), 5: 615
- HICKCOX, C. B., TOVELL, R. M., RASKIN, R., and SCOVILLE, W. B., Stellate ganglion: its significance in practice, 4: 150
- HICKCOX, C., see SOKALCHUK, A., jt. auth.
- HILDING, A. C., Production of negative pressure in the respiratory tract by ciliary action and its relation to postoperative atelectasis, 5: 225
- HIMMELSTEIN, A., and SCHEINER, M., The cardiostachoscope, 13: 62
- HIMWICH, H. E., The brain and the symptomatology of the anoxias, 10: 663
- HIMWICH, H. E., see ETSTEN, B., jt. auth.
- HINGSON, R. A., The development of the hypodermic spray for parenteral therapy by jet injection, 10: 66
- HINGSON, R. A., and EDWARDS, W. B., Comprehensive review of continuous caudal analgesia for anesthetists, 4: 181
- HINGSON, R. A., and HELLMAN, L. M., Organization of obstetric anesthesia on a twenty-four hour basis in a large and a small hospital, 12: 745
- HINGSON, R. A., see BRYCE-SMITH, R., jt. auth.
- HINGSON, R. A., see HUBAY, C. A., jt. auth.
- Histamine, effect on bronchi (Cohen & others), 10: 451
- History
- history (edit.), 4: 540
- absorption of carbon dioxide from anesthetic atmospheres: historical aspects (Waters), 8: 339
- Black, Joseph, and the identification of carbon dioxide (Foregger), 18: 257



- chemical absorption of carbon dioxide from anesthetic atmospheres (Waters), 4: 596
- chloroform, the centennial of (Kindschi), 9: 1
- curare: Its past and present (Cullen), 8: 479
- development (Keys), 2: 522; 3: 282, 650; 4: 409
- ether anesthesia: yesterday, today and tomorrow (Miller), 8: 471
- the first anesthetic death with some remarks suggested by it on the fields of the laboratory and the clinic in the appraisal of new anesthetic agents (Beecher), 2: 443
- frontiers of anesthesia (Tainter), 7: 132
- gaseous anaesthetics (Bourne), 8: 227
- Housz, Jan Ingen, and Joseph Priestley controversy on carbon dioxide absorption (Foregger), 17: 511
- impressions of the centenary celebrations of anaesthesia in Great Britain (Bourne), 9: 239
- the jubilee year of organized anesthesia (Betcher & others), 17: 226
- Long, C. W., 1815-1878 (Collier), 4: 279
- Morton's birthplace (c.c.), 3: 213
- nitrous oxide centennial (Waters), 5: 551
- oil-ether colonic anesthesia, the study of (Gwathmey), 3: 171
- a ride through Central Park (Betcher), 18: 785
- the vision and daring of youth. The story of the introduction of surgical anesthesia (Fulton), 8: 464
- Wells, Horace, centenary (Hickcox), 5: 615
- HITCHCOCK, F. A., see REED, J. P., jt. auth.
- HITCHCOCK, P., see DI PALMA, J. R., jt. auth.
- HITCHCOCK, P., see KEOWN, K. K., jt. auth.
- Hodgkin's disease, treatment, intravenous procaine (Graubard & Peterson), 10: 75
- HOEFLICH, E. A., see ALLEN, C. R., jt. auth.
- HOFF, H. E., Physiologic problems in peripheral vascular disease, 13: 474, 628
- HOFF, H. E., see SMITH, P. K., jt. auth.
- HOFFMAN, G. L., see ECKENHOFF, J. E., jt. auth.
- HOLADAY, D. A., Nitrous oxide-cyclopropane-curare anesthesia; a review of 200 cases, 7: 426
- HOLADAY, D. A., see FRUMIN, M. J., jt. auth.
- HOLADAY, D. A., see NGAI, S. H., jt. auth.
- HOLINGER, P. H., and CASSELS, W. H., Endotracheal anesthesia for external laryngeal surgery, 5: 583
- HOLLAND, H., see GROSS, E. G., jt. auth.
- Hollerith punch cards system (Wangeman), 2: 179
- use of (Wangeman & Martin), 6: 64
- HOLT, J. P., see KNOEFEL, P. K., jt. auth.
- HOLT, K. R., see HELIJAS, C. S., jt. auth.
- Homeostasis, peripheral vascular, relation to anesthetics (Hershey & Zweifach), 11: 145
- HOMEYER, W., MINTZ, S., and ADRIANI, J., Effects upon the duration of spinal anesthesia of combining nonanesthetic substances with the agent, 13: 231
- HOPPE, J. O., Observations on the potency of neuromuscular blocking agents with particular reference to succinylcholine, 16: 91
- HORITA, A., and DILLE, J. M., Observations on the action of thiopental (Pentothal) on the laryngeal reflex, 16: 848
- Hormones, steroid, anesthetic effects, fish assay for (Selye & Heard), 4: 36
- HOROKAWA, S., see TRAINA, V., jt. auth.
- HORTON, J. W., Present status of the problem of preventing anesthetic explosions, 2: 121
- HOSEIN, E. A., DENSTEDT, O. F., and GRIFFITH, H. R., Comments on benzimidazole: illustrating a method of approach to the introduction of new drugs (edit.), 16: 142
- HOSEIN, E. A., STACHIEWICZ, E., BOURNE, W., and DENSTEDT, O. F., The influence of nitrous oxide on the metabolic activity of brain tissue, 16: 708
- Hospitals
- operating room fire (case report), 17: 751
- recovery room (c.c.), 17: 365
- special care unit (Saklad), 20: 822
- HOUE, R. W., see BELLVILLE, J. W., jt. auth.
- HOUSEHOLDER, J. R., and MORRIS, L. E., Correlations of the electroencephalogram with trifluoroethylvinyl ether (Fluormar) anesthesia (abs.), 18: 167
- HOUSEPIAN, E. M., see PURPURA, D. P., jt. auth.
- HOWARD, J. P., BALOVICH, V., COLLINS, C. G., and ADRIANI, J., Some observations upon the effect of certain anesthetic agents on uterine motility during labor, 10: 151
- HOWARD, J. P., LEVY, L., II, and ADRIANI, J., The effects of epinephrine and ephedrine administered intrathecally upon cardiac automaticity during cyclopropane anesthesia, 11: 694
- HOWELL, G. R., see BOURNE, W., jt. auth.
- HOWLAND, W. S., Cardiovascular and clotting disturbances during massive blood replacement, 19: 140
- HOWLAND, W. S., BOYAN, C. P., and WANG, K.-C., The use of a steroid (Viadril) as an anesthetic agent, 17: 1
- HOWLAND, W. S., and PAPPER, E. M., Circulatory changes during anesthesia for neurosurgical operations, 13: 343
- HOWLAND, W. S., and PAPPER, E. M., Use of hyaluronidase with topical anesthesia for endotracheal intubation, 12: 688
- HOWLAND, W. S., ZUCKER, M. B., CLIFFTON, E. E., and BOYAN, C. P., The effect of cyclopropane and cyclopropane plus hypercarbia on blood clotting (abs.), 20: 128
- HOWLAND, W. S., see BELLVILLE, J. W., jt. auth.
- HOWLAND, W. S., see BOYAN, C. P., jt. auth.
- HOWLAND, W. S., see TUNG, P. P., jt. auth.
- HOWLAND, W. S., see WANG, K.-C., jt. auth.
- Hr factor, as a cause of erythroblastosis foetalis (Weiner & Brancato), 9: 175
- HUBAY, C. A., WALTZ, R. C., BRECHER, G. A., FRAGLIN, J., and HINGSON, R. A., Circulatory dynamics of venous return during positive-negative pressure respiration, 15: 445
- HUBBARD, T. F., see GOLDBAUM, L. R., jt. auth.

- HUBBELL, A. O., Pentothal sodium anesthesia for dental surgery in office practice and control of recovery time, 4: 174
- HUDON, F., Intubation without laryngoscopy, 6: 476
- HUDON, F., see TOVELL, R. M., jt. auth.
- HUGGINS, R. A., MORSE, R. A., CHAPMAN, D. W., and SCHUHMACHER, L. F., The effect of quinidine on arrhythmias induced by cyclopropane and cyclopropane-epinephrine, 623
- HUGGINS, R. A., and MOYER, J. H., Some effects of N-allylnormorphine on normal subjects and a review of the literature, 16: 82
- HUGHES, C. W., see RILEY, P. A., jt. auth.
- HUGILL, J. T., Liver function and anesthesia, 11: 567
- HULME, N. A., and KRANTZ, J. C., Anesthesia. XLV: Effect of ethyl ether on oxidative-phosphorylation in the brain, 16: 627
- HULME, N. A., and KRANTZ, J. C., Anesthesia. XLVIII. Anesthetic potency and the uncoupling of oxidative phosphorylation, 17: 43
- HULME, N. A., see O'MALLEY, W. E., jt. auth.
- HULPIEU, H. R., COLE, V. V., and VIEIRA, Z., Blood levels of procaine and p-amino-benzoic acid following the use of intravenous procaine hydrochloride in general anesthesia, 11: 333
- HUME, R. H., and WILNER, W. K., Use of dramamine in control of postoperative nausea and vomiting, 13: 302
- HUNT, K. H., Resistance in respiratory valves and canisters, 16: 190
- HUNT, W. H., and FOEBINDER, R. J., The anesthetic potency of some new piperidine derivatives, 1: 305
- HUNTER, A. R., Anaesthesia for operations in the vertebral canal, 11: 367
- HUNTER, A. R., The anaesthetist as a clinician (edit.), 13: 108
- HURLBUT, D. B., and DILLE, J. M., Effect of Nisentil upon the intra-uterine respiratory movements of the rabbit fetus, 13: 71
- HUTTON, C. E., see BERGNER, R. P., jt. auth.
- Hyaluronidase (Alidase)  
in caudal block (Payne & Rupp), 12: 164  
in local anesthesia (Moore), 12: 611  
in nerve block (Moore), 11: 470  
in nerve block anesthesia (Eckenhoff & Kirby), 12: 27  
in topical anesthesia for endotracheal intubation (Howland & Papper), 12: 688  
objective method of evaluating topical anesthesia utilizing laryngeal reflex, effect of methylcellulose, Triton A-20, and hyaluronidase (Clark & others), 15: 161  
to relieve pain of extravascular injection (corr.), 12: 398  
use of, and detergent as aids in pulmonary expansion in resuscitation of newborn infant (Bloxsom), 16: 41
- HYATT, K., see RUMBLE, L., jt. auth.
- Hydrocarbons  
fluorinated, anesthetic properties of (Lu & others), 14: 466  
unsaturated, mono halogenated, anesthetic potency (Abreu), 2: 393
- Hydrogen ion concentration, effect on cerebral vessels (Kely), 10: 610
- Hydrogen peroxide, parenteral administration of (Lorincz & others), 9: 162
- Hydroxydione (21-Hydroxypregnane-3,20-dione Sodium Succinate)  
cardiovascular, respiratory and pharmacologic properties of (Montmorency & others), 19: 450  
clinical experience (Dent & others), 17: 672  
pharmacologic properties of cardiovascular-respiratory effects of (abs.), 19: 108  
use of, as an anesthetic agent (Howland & others), 17: 1
- 3-Hydroxy-N-methyl-morphinan Hydrobromide, supplement to nitrous oxide (Brotman & others), 11: 527
- Hyoscine: see Scopolamine
- Hypalgnesia, nitrous oxide, in trained subjects (Haugen & others), 20: 321
- Hyperaldosteronism, (primary) anesthetic experience (Garlington & Bailey), 19: 661
- Hypercapnia: see also under Carbon Dioxide  
postanesthetic hypotension following cyclopropane, relationship to (Buckley & others), 14: 226
- Hyperglycemia: see also Blood, sugar  
during anesthesia, mechanism of (Johnson), 10: 379  
effect of premedication (Watts), 13: 33
- Hypertension  
anesthetic management, of patients undergoing sympathectomy for (Phelps & Burdick), 4: 361  
control and management of hypertensive crises developing during surgical procedures (Riskin & others), 15: 262  
during anesthesia in patients with spinal cord injuries (Ciliberti & others), 15: 273  
mechanism of, during diffusion respiration (Tenney), 17: 768  
renal hemodynamics in hypertensive patients following administration of Pendiomide (Moyer & others), 17: 9  
surgery for, anesthesia (Clark), 11: 345
- Hyperthermia following anesthesia (Burford), 1: 208
- Hyperthyroidism, spinal anesthesia, to control sympathetic overactivity (Knight), 6: 225; (corr.), 6: 531
- Hyperventilation: see under Respiration
- Hypnosis  
an aid in anesthesia (Raginsky), 9: 472  
(corr.), 17: 752  
(c.c.), 17: 369  
induction techniques in pediatric anesthesia (c.c.), 19: 279  
thiopental and methitural (Egbert & others), 19: 656

- Hypnotic Drugs:** see also under names of specific drugs  
commonly used in young and aged, comparative respiratory effects of (abs.), **20: 131**  
effect on heart (Halbeisen & others), **10: 585**  
effect of temperature, thyroxin, and adrenal-ectomy on toxicity of (Richards), **2: 37**
- Hypocapnea:** see under Carbon Dioxide
- Hypoglycemia**  
a complication of spinal anesthesia in the diabetic (Peterson & others), **4: 625**  
effect on brain (Himwich), **10: 663**
- Hypophysectomy**  
anesthetic management during, for fulminant "juvenile" diabetes (Anderson & Kinsell), **16: 375**
- Hypospray,** for parenteral therapy (Hingson), **10: 66**
- Hypotension**  
and apneic effects of local anesthetic drugs in dogs and mice under general anesthesia (Wood & Haggart), **18: 831**  
Arfonad induced, respiratory studies with (abs.), **19: 106**  
controlled  
with Arfonad, clinical report (Clark & others), **16: 434**  
controlled (Hale), **16: 1**  
with Pendiomid on renal hemodynamics and water electrolyte excretion—comparison with hexamethonium and Arfonad and effect of norepinephrine (Moyer & others), **16: 355**  
diagnosis and treatment of hypotension during anesthesia (Stephen & others), **14: 180**  
during obstetrical anesthesia (Kennedy & others), **20: 153**  
effects of drug-induced, on electroencephalogram of dog (Schallek & Walz), **15: 673**  
heart force responses to pressor amines during hypotension produced by hexamethonium (Cotton & others), **15: 126**  
hexamethonium-induced, physiologic alterations associated with (Van Bergen & others), **15: 507**  
hypotensive anesthesia, clinical evaluation (Miller & Lorhan), **16: 73**  
induced during anesthesia and surgery (Little), **16: 320**  
induced, recent developments in anesthesia in British Isles, with particular reference to (edit.), **15: 103**  
neurogenic and hormonal (Raab), **16: 781**  
postanesthetic, following cyclopropane, relationship to hypercapnia (Buckley & others), **14: 226**  
reflex, effect of curare (Burstein & others), **11: 409**  
use of thiophanium derivative (Arfonad) for production of flexible and rapidly reversible hypotension during surgery (Nicholson & others), **14: 215**  
and tubocurarine, intravenous administration of (c.c.), **19: 404**  
urinary excretion of Arfonad by patients undergoing "controlled hypotension" during surgery (Gertner & others), **16: 495**
- Hypothermia**  
anesthetic management, cessation of circulation in general hypothermia (Zeavin & others), **15: 113**  
arrhythmias during  
cardiac arrhythmias produced by mechanical stimulation during (abs.), **19: 113**  
comparison of anesthetics on incidence of ventricular fibrillation in experimental hypothermic ventriculotomy (Anlyan & others), **19: 213**  
potentiation of centrally induced cardiac irregularities (Purpura & others), **19: 27**  
and coronary perfusion for surgery of atrial and valvular defects (Colgan & others), **20: 811**  
during cardiac surgery (McQuiston), **10: 590**  
effect of  
age in dogs (DeBoer & Ederstrom), **7: 518**  
on renal circulation of dog (Miles & Churchill-Davidson), **16: 230**  
electroencephalogram in, with circulatory arrest (Pearcy & Virtue), **20: 341**  
inflatable plastic tub for (c.c.), **19: 287**  
review (Little), **20: 842**  
survival by dog (Woodruff), **2: 410**  
therapeutic  
controlled, experimental and clinical results (Ciocatto & Cattaneo), **17: 16**  
effect on morphine metabolism in isolated perfused liver (Rink & others), **17: 377**  
ventricular fibrillation in hypothermic dogs as influenced by thiopental, pentobarbital and succinylcholine (Riley & others), **17: 277**
- Hypoventilation:** see under Respiration
- Hypoxia:** see also Oxygen, deficiency  
prognosis after severe hypoxia (Bellville & Howland), **18: 389**  
variations in the signs of, during anesthesia (Allen & others), **8: 601**
- IASON, A. H.,** see ANSBRO, F. P., jt. auth.
- ICHIYANAGI, K.,** Sciatic nerve block: lateral approach with the patient supine, **20: 601**
- ICHIYANGI, K.,** and MORRIS, L. E., Effect of cyclopropane and various oxytocics on cardiac rhythm in the parturient woman, **20: 669**
- IGLAUER, S.,** Relation of respiratory passages to anesthesia, **3: 195**
- IKEZONO, E.,** HARMEL, M. H., and KING, B. D., Pulmonary ventilation and arterial oxygen saturation during ether-air anesthesia, **20: 597**
- IKEZONO, E.,** see WEITZNER, S. W., jt. auth.
- Imbretil:** see Hexabiscarbatholine
- Indoklon:** see Ether, hexafluoroethyl
- Induction:** see Anesthesia, induction
- Infants:** see also Anesthesia, pediatric; children  
bradycardia following intravenous succinylcholine chloride to (Leigh & others), **18: 698**

- cardiac catheterization in anesthesia for (Keown & others), 18: 270
- curare, use of, in (Smith), 8: 176
- double aortic arch, anesthetic management (abs.), 18: 175
- endotracheal tube sizes for (Slater & others), 16: 950
- laryngoscope for (c.c.), 17: 364
- newborn
- resuscitation, use of Alevaire and spreading factor (hyaluronidase) as aids in pulmonary expansion (Bloxson), 16: 41
  - technique for resuscitation (c.c.), 18: 136
  - premature, anesthesia for (corr.), 11: 136
  - permedication for (Leigh & Belton), 7: 611
  - succinylcholine in cardiovascular surgery of (Telford & Keats), 18: 841
- unborn, audiovisual monitoring of (abs.), 19: 104
- Infrared
- absorption tube for simultaneous measurement of carbon dioxide and nitrous oxide (Loomis & Beyer), 12: 173
  - of carbon dioxide during anesthesia, collision broadening effect of nitrous oxide upon (Bergman & others), 19: 19
  - for carbon dioxide in respired gases containing cyclopropane and ether (Linde & Lurie), 20: 45
- Infection, effect on procaine metabolism (Hulpieu & others), 11: 333
- Ingen Housz, Jan, Joseph Priestley and, controversy on carbon dioxide absorption (Foregger), 17: 511
- Infusions, intramedullary (Tarrow & others), 13: 501
- INGLIS, A. N., see BOURNE, W., jt. auth.
- Inhalation Anesthesia: see under Anesthesia
- Inhalation Therapy, a method for the collection and analysis of statistics, statistical study (Saklad & others), 5: 359
- Inhalers: see Apparatus
- Injection: see also under specific names of substances
- cyclohexamine, new intravenous agent (Lear & others), 20: 330
  - epinephrine (subsequent), effect of atropine and scopolamine on, in thyrotoxic and euthyroid patients (Sarnoff & Cope), 15: 484
  - intracisternal, of procaine hydrochloride, urine secretion during diffusion respiration following apnea induced by (Irwin & others), 16: 665
- intravenous
- continuous, of norepinephrine, epinephrine and neosynephrine during cyclopropane and ether anesthesia in dog, cardiovascular effect of (Deterling & others), 15: 11
  - of lidocaine and succinylcholine, electroencephalogram of cat after (Acheson & others), 17: 802
  - preanesthetic medication for children, oral and intramuscular routes (Root), 20: 49
  - spinal, neurological effect following intrathecal administration of vasoconstrictor drugs in rhesus monkeys (Wu & others), 15: 71
- Injectomat, for continuous spinal anesthesia (de Ciutiis and Ferro), 12: 708
- Interferometry, analysis of trichloroethylene vapor by (Hall & others), 14: 38
- Intestine
- concentration of Pentothal in (Bollman & others), 11: 1
  - effect of curare on smooth muscle of (Gross & Cullen), 6: 231
  - inhibition, by cyclopropane, studies on the mechanism of (Youmans & others), 3: 303
  - relationship to drug protection against shock (Rovenstine & others), 20: 290
  - small, effect of drugs used in anesthesiology on the tone and motility of (Golden & Mann), 4: 577
- Intocostrin: see Curare
- Intracaine
- cycotoxicity (Gittelson), 10: 202
  - peridural block with (Abajian), 4: 372
- Intraocular Pressure: see under Eyes
- Intratracheal Anesthesia: see Anesthesia, intratracheal
- Intratracheal pressure, effect on arterial blood oxygen (Thornton & others), 6: 498
- Intravenous: see under Injection
- Intravenous Anesthesia: see Anesthesia, intravenous
- Insulin: see also Blood, sugar
- administered during ether anesthesia, metabolic consequences of (abs.), 19: 104
- Intubation
- aid in passing gastric tube (c.c.), 4: 81
  - blade for lateral (c.c.), 20: 380
  - blood gas studies during (Beecher), 11: 730
  - of children (Leigh & Belton), 11: 592
  - of children, for cleft lip and cleft palate operations (Leigh & Kester), 9: 33
  - combined effect of thiopental-Flaxedil, intubation and atropine on dead space (abs.), 18: 157
  - of conscious patient (c.c.), 6: 625
  - detection of breath sounds during (c.c.), 10: 513
  - device for blind nasal (c.c.), 20: 221
  - difficult, subglottic stenosis, cause of (Colgan & Keats), 18: 265
  - edema of the larynx following (Shaw), 7: 416
  - endotracheal, cardiac rhythm and (Denson & Joseph), 15: 650
- electrocardiographic
- changes during (Converse & others), 13: 163
  - studies during (Burststein & others), 11: 224; 299
  - studies during (Peters & others), 12: 673
  - studies during, effects during anesthesia with thiopental sodium combined with muscle relaxant (Rosner & others), 14: 591
  - studies during, effects during general anesthesia and hexylcaine hydrochloride topical spray (Arcuri & others), 14: 46
  - studies during, Evipal sodium induction (Dance & others), 17: 730

- esophageal (corr.), 14: 98
- Evipal-curare induction for (Volpitto & Benton), 11: 164
- use of Flaxedil (c.c.), 13: 437
- forcep for (c.c.), 12: 514
- fractured mandible, in anesthetic management of (Hershey & Rovenstine), 9: 383
- nasal, unusual complication (case report), 14: 96
- nasotracheal
- advantages and disadvantages of "blind" technic (Elder), 5: 392
  - retrobulbar hemorrhage from (c.c.), 20: 717
  - oro-tracheal, in lateral position (c.c.), 20: 700
- pentobarbital-curare induction for (Carron & others), 9: 11
- Pentothal-curare for (Baird & others), 9: 141
- post-traumatic use of, in treatment of pulmonary secretions (Foregger), 7: 285
- prolonged (case report), 10: 109
- prolonged (case report), 11: 129
- prolonged (case report), 12: 662
- reflex circulatory responses during (King & others), 12: 556
- reflex circulatory responses to under topical anesthesia (King & others), 15: 231
- size of tubes (corr.), 12: 670
- subcutaneous emphysema complication of (c.c.), 20: 714
- succinylcholine for (c.c.), 14: 93
- use of succinylcholine (Hampton & others), 14: 382
- Syncurine (Bailey and Murphy), 12: 63
- after transtracheal anesthesia (Bonica), 10: 736
- use of thiopental and decamethonium bromide for (Colon-Yordan & others), 14: 255
- thiopental induction, for maxillofacial surgery (Collins), 9: 62
- for thoracic surgery (Fisher & others), 9: 623
- through compressed trachea (case report), 7: 444
- topical anesthesia for (Howland and Papper), 12: 688
- trauma following (Dwyer & others), 10: 714
- ultra-short acting intravenous barbiturates combined with decamethonium for (Volpitto), 12: 648
- Iodine
- radioactive
    - effect of certain anesthetic agents and techniques on twenty-four hour uptake (abs.), 20: 138
  - radioactive, and lidocaine solution, spread of an epidural (Nishimura & others), 20: 785
- Ion exchange resins, observations on carbon dioxide absorption properties of (Smart & Derrick), 18: 216
- Ionization of air: a method for the dispersion of changes of static electricity (Slocum & Finvold), 5: 33
- Irradiation: see Radiation
- IRWIN, C. I., see ADELMAN, M. H., jt. auth.
- IRWIN, R. L., DRAPER, W. B., and WHITEHEAD, R. W., Urine secretion during diffusion respiration after apnea from neuromuscular block, 18: 594
- IRWIN, R. L., STONE, J. E., DRAPER, W. B., and WHITEHEAD, R. W., Urine secretion during diffusion respiration following apnea induced by intracisternal injection of procaine hydrochloride, 16: 665
- IRWIN, R. L., WELLS, J. B., and WHITEHEAD, R. W., Effect of calcium on duration of apnea induced by succinylcholine, 17: 759
- ISAACS, J. P., see BREWSTER, W. R., jt. auth.
- ISAACS, J. P., see MALONEY, J. V., jt. auth.
- ISBELL, H., see FRASER, H. F., jt. auth.
- ISENBERGER, R. M., The pharmacologic actions of intravenous procaine as an analgesic agent, 10: 343
- Isopropyl Chloride, anesthesia, clinical evaluation (Liang & Dodd), 17: 297
- IWAMOTO, H. K., see KRANTZ, J. C., JR., jt. auth.
- JACKSON, A., see BURSTEIN, C. L., jt. auth.
- JACKSON, C., Contact ulcer granuloma and other laryngeal complications of endotracheal anesthesia, 14: 425
- JACKSON, D. E., Anesthesia equipment from 1914 to 1954 and experiments leading to its development, 16: 953
- JACKSON, D. E., A special method for recording the actions of the heart: the cairivibograph and the vibogram, 16: 536
- JACKSON, K., Psychologic preparation as a method of reducing the emotional trauma of anesthesia in children, 12: 293
- JACKSON, K., Tachycardia in children during anesthesia, 9: 573
- JACOBSON, E., and ADELMAN, M. H., The electrocardiographic effects of intravenous administration of neostigmine and atropine during cyclopropane anesthesia, 15: 407
- JACOBSON, E., see ADELMAN, M. H., jt. auth.
- JACOBSON, S. A., see PURPURA, D. D., jt. auth.
- JACOBY, J. J., COON, J. M., WOOLF, M. P., SALERNO, P. R., and LIVINGSTONE, H. M., Effect of procaine on liver function. An experimental and clinical study, 9: 481
- JACOBY, J., JONES, J. R., ZIEGLER, J., CLAASSEN, L., and GARVIN, J. P., Pneumoencephalography and air embolism: stimulated anesthetic death, 20: 336
- JACOBY, J., ZIEGLER, C., HAMELBERG, W., MOGG, A., KLASSEN, K., and FLORY, F., Cardiac arrhythmia: effect of vagal stimulation and hypoxia, 16: 1004
- JACOBY, J., see BOSOMWORTH, P. B., jt. auth.
- JACOBY, J. J., see LORINCZ, A. L., jt. auth.
- JACOBY, J., see REED, J. P., jt. auth.
- JAMES, S., see KING, B. D., jt. auth.
- JAMISON, W., see RUBEN, J. E., jt. auth.
- JANNEY, C. D., see ELAM, J. O., jt. auth.
- JARVIS, W. H., see DUNCAN, D., jt. auth.
- JAVERT, C. T., and HARDY, J. D., Influence of analgesics on pain intensity during labor (with a note on "natural childbirth"), 12: 189



- jaw  
"tight" in resuscitation (c.c.), 20: 701  
winking-jaw phenomenon, associated movements in anesthesia (Bortoluzzi), 20: 585
- JENKINS, L. C., see LEIGH, M. D., jt. auth.
- Jet Injection, hypospray for (Hingson), 10: 66
- JINKINS, J. L., see BODANSKY, M., jt. auth.
- JOHNSON, A. L., see STEPHEN, C. R., jt. auth.
- JOHNSON, G. E., see GRIFFITH, H. R., jt. auth.
- JOHNSON, H., see BERGNER, R. P., jt. auth.
- JOHNSON, H., see ELDER, J. D., jt. auth.
- JOHNSON, J. C., see STEVEN, R. J. M., jt. auth.
- JOHNSON, N. P., and LIVINGSTONE, H. M., Anesthesia for urgent intra-abdominal surgical procedures in patients with cardiovascular disease, 15: 150
- JOHNSON, R. L., see MILLER, W. F., jt. auth.
- JOHNSON, S. R., The mechanism of hyperglycemia during anesthesia: an experimental study, 10: 379
- JOHNSON, W. H., see CARMICHAEL, E. B., jt. auth.
- JOHNSON, W. R., see BAIRD, J. W., jt. auth.
- JONES, B. E., see VIRTUE, R. W., jt. auth.
- JONES, C. F., Recommended safe practice (edit.), 17: 745
- JONES, C. S., FAULCONER, A., JR., and BALDES, E. J., Preliminary investigations of carbon tetrafluoride as an inert diluent gas to prevent explosions of mixtures of cyclopropane and oxygen, 11: 562
- JONES, C. S., SAARI, J. M., DEVLOO, R. A., FAULCONER, A., JR., and BALDES, E. J., Analysis of gases in blood with the mass spectrometer. II. A method for the determination of diethyl ether in blood, 14: 490
- JONES, G. W., and THOMAS, G. J., Prevention of cyclopropane-oxygen explosions by dilution with helium, 2: 138
- JONES, J. R., see JACOBY, J., jt. auth.
- JONES, R. E., HELRICHS, M., and ECKENHOFF, J. E., Effects of common respiratory phenomena during general anesthesia on arterial blood pressure and pulse, 17: 325
- JONES, R. E., see HELRICHS, M., jt. auth.
- JONES, R. E., see LURIE, A. A., jt. auth.
- JONES, R. E., see PRICE, H. L., jt. auth.
- JONES, W. M., MARGOLIS, G., and STEPHEN, C. R., Hepatotoxicity of inhalation anesthetic drugs, 19: 715
- JOSEPH, S. I., see DENSON, J. S., jt. auth.
- JUDOVICH, B. D., BATES, W., and BISHOP, K., Intraspinal ammonium salts for the intrac-table pain of malignancy, 5: 341
- JUDOVICH, B. D., see BATES, W., jt. auth.
- JULIAN, O. C., see SADOVE, M. S., jt. auth.
- JURGENSE, P. E., A study of Elocaine, 16: 615
- KALOW, W., The distribution, destruction and elimination of muscle relaxants, 20: 505
- KAMSLER, P. M., DARBS, H., and SOUTHWORTH, J. L., Regional spinal anesthesia, utilizing the continuous spinal technic of Tuohy, 13: 397
- KAMSLER, P. M., see RUBEN, J. E., jt. auth.
- KAPLAN, H. A., see KING, B. D., jt. auth.
- KAPLAN, M. S., and ARROWOOD, J. G., Prevention of headache following spinal anesthesia. The use of epidural saline: a preliminary report, 13: 103
- KAPPESSER, R. C., Modification of double canis-ter circle filter, 14: 415
- KARP, M., see EASON, E., jt. auth.
- KARP, M., see PEAL, L., jt. auth.
- KARP, M., see PENEFSKY, H. S., jt. auth.
- KARP, M., see POE, M. F., jt. auth.
- KARSTENS, A. I., see YOUNG, W. B., jt. auth.
- KASTER, R. B., see VIRTUE, R. W., jt. auth.
- KATCHKA, D. M., see KENNEDY, R. L., jt. auth.
- KATZ, S., see BRAY, K. E., jt. auth.
- KAY, E. B., see MENDELSON, D., jt. auth.
- KAY, F. A., CARMICHAEL, E. B., and PHILLIPS, G. W., Studies on paraldehyde. I. The median lethal dose, LD<sub>50</sub>, of paraldehyde for guinea pigs, 5: 182
- KAY, F. A., see PHILLIPS, G. W., jt. auth.
- KAY, R., see HELLIJAS, C. S., jt. auth.
- KAYE, G., Impressions of anaesthesia in a military base hospital, 3: 247, 379
- KAYE, G., Respiratory sequelae of anaesthesia in military practice, 5: 383
- KEASLING, H. H., and GROSS, E. G., The effect of analgesics on radiant heat thresholds in man, 17: 809
- KEASLING, H. H., see DE BACKER, L. J., jt. auth.
- KEASLING, H. H., see EGER, E. I., jt. auth.
- KEASLING, H. H., see GUY, E. P., jt. auth.
- KEASLING, H. H., see PEARCY, W. C., jt. auth.
- KEASLING, H. H., see PITTINGER, C. B., jt. auth.
- KEATS, A. S., and BEECHER, H. K., The analgesic effectiveness of morphine solutions containing sodium bisulfite, 14: 140
- KEATS, A. S., KUROSU, Y., TELFORD, J., and COOLEY, D. A., Anesthetic problems in cardiopulmonary bypass for open heart surgery: experiences with 200 patients, 19: 501
- KEATS, A. S., TELFORD, J., and KUROSU, Y., Studies of analgesic drugs: anileridine dihydrochloride, 18: 690
- KEATS, A. S., TELFORD, J., and KUROSU, Y., Studies of two new potent analgesics: anileridine and dihydrocodeine (abs.), 18: 168
- KEATS, A. S., see COLGAN, F. J., jt. auth.
- KEATS, A. S., see COONS, R. E., jt. auth.
- KEATS, A. S., see KUROSU, Y., jt. auth.
- KEATS, A. S., see MANNHEIMER, W. H., jt. auth.
- KEATS, A. S., see MORRIS, G. C., jt. auth.
- KEATS, A. S., see PAPADOPOULOS, C. N., jt. auth.
- KEATS, A. S., see TELFORD, J., jt. auth.
- KEET, J. E., see McDONALD, W. L. J., jt. auth.
- KEHOE, R. A., see RYDER, H. W., jt. auth.
- KELLY, A. R., see SHIDEMAN, F. E., jt. auth.
- Kemithal and trichlorethylene for children (Stephen & Slater), 12: 135
- KENDRICK, D. B., and REICHEL, J., Practical approach to the treatment of shock, 4: 497
- KENNARD, M. A., and HAUGEN, F. P., The relation of subcutaneous focal sensitivity to referred pain of cardiac origin, 16: 297

- KENNEDY, R. J., and LOCKHART, G., Paresis of the abducens nerve following spinal anesthesia, 13: 189
- KENNEDY, R. L., FRIEDMAN, D. L., KATCHKA, D. M., SELMANTS, S., and SMITH, R. N., Hypotension during obstetrical anesthesia, 20: 153
- KEOWN, K. K., FISHER, S. M., DOWNING, D. F., and HITCHCOCK, P., Anesthesia for cardiac catheterization in infants and children, 18: 270
- KEOWN, K. K., see RUTH, H. S., *jt. auth.*
- KEPES, E. R., Effect of Demerol on the cerebrospinal fluid pressure, 13: 281
- KERNIS, L., and STODSKY, B., Failure of pyridoxine in postanesthetic nausea and vomiting, 11: 212
- KERR, J. H., see ELAM, J. O., *jt. auth.*
- KESTER, H. A., see LEIGH, M. D., *jt. auth.*
- KETY, S. S., The physiological and physical factors governing the uptake of anesthetic gases by the body, 11: 517
- KETY, S. S., The physiology of the human cerebral circulation, 10: 610
- KETY, S. S., Stellate ganglion blockade and the cerebral circulation (*edit.*), 20: 697
- KETY, S. S., see WECHSLER, R. L., *jt. auth.*
- KEYS, T. E., Development of anesthesia, 2: 552; 3: 11, 282, 650; 4: 409
- KHROMOV, B. M., Anesthetization in radiation sickness, 19: 792
- KIBLER, D. V., Anesthesia. XXVI. The determination of ethers in blood with special reference to methyl n-propyl ether, 8: 288
- KIBLER, D. V., see CARR, C. J., *jt. auth.*
- Kidney  
 antidiuretic effects of anesthesia agents (Bachman), 16: 939  
 disease, effect on procaine metabolism (Hulpiu & others), 11: 333  
 effect of  
   hypothermia on circulation of, in dog (Miles & Churchill-Davidson), 16: 230  
   propethylene on (Evans & others), 6: 39  
   saline and anesthesia on function of (Crawford & Gaudino), 13: 374  
 hemodynamics in hypertensive patients following Pendiomid administration (Moyer & others), 17: 9  
 hepatorenal syndrome following Vinethene (Hawk & others), 2: 388  
 influence of on the duration of barbiturate anesthesia (Masson & Beland), 6: 483  
 Pentothal concentration of in (Bollman & others), 11: 1  
 renal function during anesthesia for cardiovascular surgery (Morris & others), 20: 608  
 renal hemodynamics and water electrolyte excretion, controlled hypotension with Pendiomid on—comparison with hexamethonium and Arfonad and effect of norepinephrine (Moyer & others), 16: 355  
 renal vasoconstrictor responses (Boba & others), 20: 268
- role of from the stand point of the anesthetist (Mousel & Lundy), 1: 40
- KIENZLE, W. K., see DEBACKER, L. J., *jt. auth.*
- KIERSEY, D. K., FAULCONER, A., and BICKFORD, R. G., Automatic electro-encephalographic control of thiopental anesthesia, 15: 356
- KILBORN, M. G., Preliminary clinical report on a new carbon dioxide absorbent—Baralyme, 2: 621
- KILBORN, M. G., FORMAN, S. E., EVANS, W. E., JR., and KRANTZ, J. C., JR., Anesthesia. VII. Studies with cyclopropyl ethyl ether (cypreth ether) in man, 3: 414
- KINDSCHI, D. R., The centennial of chloroform, 9: 1
- KING, A. B., see BREHM, W. F., *jt. auth.*
- KING, B. D., ELDER, J. D., PROCTOR, D. F., and DRIPPS, R. D., Reflex circulatory responses to tracheal intubation performed under topical anesthesia, 15: 231
- KING, B. D., and JAMES, S., An infant pneumotachograph (*abs.*), 18: 168
- KING, B. D., HARRIS, L. C., GREIFENSTEIN, F. E., ELDER, J. D., and DRIPPS, R. D., Reflex circulatory responses to direct laryngoscopy and tracheal intubation performed during general anesthesia, 12: 553
- KING, B. D., WEITZNER, S. W., and KAPLAN, H. A., A clinical and electroencephalographic study of the changes observed in humans during prolonged administration of low graded concentrations of diethyl ether (*abs.*), 20: 129
- KING, B. D., see IKEZONO, E., *jt. auth.*
- KING, B. D., see WEITZNER, S. W., *jt. auth.*
- KING, W. R., see DAVIS, H., *jt. auth.*
- KINSELL, L. W., see ANDERSON, B. M., *jt. auth.*
- KIPPLE, H. M., see DILLE, J. M., *jt. auth.*
- KIRBY, C. K., see ECKENHOFF, J. E., *jt. auth.*
- KIRCHHOF, A. C., and DAVID, N. A., Clinical experience with methadone (Dolophine), 9: 585
- KISTLER, E. M., and RUBEN, J. E., The role of stellate ganglion block after anastomosis of severed brachial artery: report of a case 11: 342
- KISTLER, E. M., see RUBEN, J. E., *jt. auth.*
- KITAHARA, T., see NISHIMURA, N., *jt. auth.*
- KLASSEN, K., see JACOBY, J., *jt. auth.*
- KLINE, K., see BERGNER, R. P., *jt. auth.*
- KLEIN, M. J., see WINBURY, M. M., *jt. auth.*
- KNIGHT, R. T., The use of spinal anesthesia to control sympathetic overactivity in hyperthyroidism, 6: 225
- KNIGHT, R. T., see BUCKLEY, J. J., *jt. auth.*
- KNIGHT, R. T., see COHEN, E. N., *jt. auth.*
- KNIGHT, R. T., see GRIMM, J. E., *jt. auth.*
- KNOEFEL, P. K., HOLT, J. P., QUINN, C., AMBROSE, A. M., and SHORE, R., Some effects of positive pressure respiration during anesthesia, 6: 349
- KNOTT, J. R., see GUY, E. P., *jt. auth.*
- KNOTT, J. R., see MORRIS, L. E., *jt. auth.*
- KNOTT, J. R., see PEARCY, W. C., *jt. auth.*
- KNOTT, J. R., see PITTINGER, C. B., *jt. auth.*

- KNOX, J. R., see NGAI, S. H., jt. auth.
- KNUTSON, R. C., Experiments in electronarcosis: A preliminary study, 15: 551
- KNUTSON, R. C., TICHY, F. Y., and REITMAN, J. H., The use of electrical current as an anesthetic agent, 17: 815
- KOPPANYI, T., Acetaldehyde, a volatile anesthetic and sympathetic stimulant, 6: 603
- KOPPANYI, T., see GREEN, M. W., jt. auth.
- KOPPANYI, T., see HAZLETON, L. W., jt. auth.
- KOPPANYI, T., see MORRISON, R. L., jt. auth.
- KOTKIN, S., LEAR, E., CHIRON, A. E., PALLIN, I. M., and DICKLER, D., Preliminary studies on the muscle relaxing properties of chlorpromazine, 17: 494
- KOUKAL, L. R., FOLDES, F. F., ZEEDICK, J. E., and DUNCALF, D., Clinical investigation of R 01-5733, a new curare antagonist (abs.), 20: 130
- KOUKAL, L. R., see BRUNN, H. M., jt. auth.
- KOUKAL, L. R., see ZEEDICK, J. F., jt. auth.
- KRACUM, V., and COLLINS, V. J., A new method of adapting the intratracheal inhaler to tracheotomy tubes and a technic for its use with endotracheal tubes, 14: 615
- KRANTZ, J. C., JR., CARR, C. J., and EVANS, W. E., Anesthesia. X. The irritative action of volatile anesthetics on the mucous membranes and the relationship between potency and chemical constitution, 5: 291
- KRANTZ, J. C., JR., CARR, C. J., DAVIS, E. H., and VITCHA, J. F., Anesthesia XXXII. A further study of anesthesia with cyclobutane, 10: 469
- KRANTZ, J. C., JR., CARR, C. J., IWAMOTO, H. K., and SAUERWALD, M. J., Anesthesia: XXIX. The potency and safety of certain anesthetic ethers, 8: 497
- KRANTZ, J. C., JR., CARR, C. J., and VITCHA, J. F., Anesthesia XXXIII. The pharmacologic response to methylcyclobutane, 10: 625
- KRANTZ, J. C., JR., CARR, C. J., VITCHA, J. F., and ANDERSCH, M. A., Anesthesia. XXX. The anesthetic properties of cyclobutane: a preliminary report, 9: 594
- KRANTZ, J. C., JR., CARR, C. J., VITCHA, J. F., and MUSSER, R. D., Anesthesia XXXV. Local anesthetic action of methahydroxyprocaine, 12: 57
- KRANTZ, J. C., JR., PARK, C. S., and LING, J. S. L., Anesthesia LX: the anesthetic properties of 1,1,1-trichloroethane, 20: 635
- KRANTZ, J. C., JR., PARK, C. S., TRUITT, E. B., and LING, A. S. C., Anesthesia LXII: A further study of the anesthetic properties of 1,1,1-trifluoro-2,2-bis(4-chlorophenyl)ethane (Fluothane), 19: 38
- KRANTZ, J. C., JR., see BLACK, C., jt. auth.
- KRANTZ, J. C., JR., see CARR, C. J., jt. auth.
- KRANTZ, J. C., JR., see DAVIS, E. H., jt. auth.
- KRANTZ, J. C., JR., see EVANS, W. E., jt. auth.
- KRANTZ, J. C., JR., see HULME, N. A., jt. auth.
- KRANTZ, J. C., JR., see KILBORN, M. G., jt. auth.
- KRANTZ, J. C., JR., see LING, A. S. C., jt. auth.
- KRANTZ, J. C., JR., see LU, G., jt. auth.
- KRANTZ, J. C., JR., see O'MALLEY, W. E., jt. auth.
- KRANTZ, J. C., JR., see OSTER, R. H., jt. auth.
- KRANTZ, J. C., JR., see PARK, C. S., jt. auth.
- KRANTZ, J. C., JR., see WHITE, M. L. T., jt. auth.
- KREISELMAN, J., New resuscitation apparatus, 4: 608
- KREISELMAN, J., see MOUSEL, L. H., jt. auth.
- KREUGER, J. E., STOELTING, V. K., and GRAF, J. P., Etiology and treatment of postspinal headaches, 12: 477
- KREUL, W., and ORTH, O. S., Treatment of the hypotensive states of spinal analgesia with dilute Neo-Synephrine solution, 12: 455
- KREUZER, F., see HELLER, M. L., jt. auth.
- KRONEN, P. S., see COTTON, M. DE V., jt. auth.
- KRONENBERG, S., see DWYER, C. S., jt. auth.
- KRONENBERG, S., see SAKLAD, M., jt. auth.
- KRUMPERMAN, L. W., MURTAGH, F., and WESTER, M. R., Epidural block anesthesia for cordotomy, 18: 316
- KRUMPERMAN, L. W., see LACHMAN, R. J., jt. auth.
- KUROSO, Y., and KEATS, A. S., Comparative respiratory effects of commonly used hypnotic and analgesic drugs in the young and in the aged (abs.), 20: 131
- KUROSO, Y., see KEATS, A. S., jt. auth.
- KUROSO, Y., see MANNHEIMER, W. H., jt. auth.
- KURTZ, H. C., see TAYLOR, I. B., jt. auth.
- KUSAKABE, T., see NISHIMURA, N., jt. auth.
- KUTSCHER, A. H., see PIRO, J. D., jt. auth.
- LACHMAN, R. J., LONG, J. H., and KRUMPERMAN, L. W., The changes in blood gases associated with various methods of induction for endotracheal anesthesia, 16: 29
- LAHEY, F. H., Need for anesthetists and training for anesthetists in the program of preparedness (edit.), 1: 341
- LAHEY, F. H., Tribute to Lincoln F. Sise, 3: 686
- LAMBERTSON, C. J., see COOPER, D. Y., jt. auth.
- LAMBIE, R. S., and PFAFF, F., The use of succinylcholine during endotracheal extubation, 17: 47
- LAMONT, A., see HARMEL, M. H., jt. auth.
- LAMONT, A., see VANDAM, L., jt. auth.
- LAND, J. F., see SIEBECKER, K. L., jt. auth.
- LANDMESSER, C. M., Study of the bronchoconstrictor and hypotensive actions of curarizing drugs, 8: 506
- LANDMESSER, C. M., COBB, S., and CONVERSE, J. G., Effects of N-allylnormorphine upon the respiratory depression due to morphine in anesthetized man with studies on the respiratory response to carbon dioxide, 14: 535
- LANDMESSER, C. M., COBB, S., PECK, A. S., and CONVERSE, J. G., Respiratory responses to carbon dioxide. "transients" in normal volunteers, 18: 807
- LANDMESSER, C. M., CONVERSE, J. G., and HARMEL, M. H., Quantitative evaluation of the

- bronchoconstrictor action of curare in the anesthetized patient: a preliminary report, 13: 275
- LANDMESSER, C. M., and DRIPPS, R. D., A new method for recording the effect of various agents upon the caliber of the human bronchial tree, 9: 159
- LANDMESSER, C. M., FORMEL, P. F., and CONVERSE, J. G., Comparative effects of a new narcotic antagonist (levallorphan tartrate) upon the respiratory responses to carbon dioxide during narcotic and barbiturate depression in anesthetized man, 16: 520
- LANDMESSER, C. M., see COBB, S., jt. auth.
- LANDMESSER, C. M., see CONVERSE, J. G., jt. auth.
- LANZA, S., see ROVENSTINE, E. A., jt. auth.
- LAPINSOHN, L., see BEUTNER, R., jt. auth.
- LARAGH, J. H., see DETERLING, R. A., jt. auth.
- LARSON, E., WYNN, M. F., and ADAMS, J. P., Sodium succinate in pentobarbital depression of the cerebral cortex and medulla oblongata, 16: 239
- LARSON, E., WYNN, M. F., and ADAMS, J. P., Studies of pentobarbital depression, 15: 537
- Laryngeal edema (case report), 4: 307
- Laryngoscope: see also under Apparatus
- attachment for dual-vision laryngoscopy (c.c.), 16: 284
- extension arm for (c.c.), 12: 658
- infant (Miller), 7: 205
- infant (c.c.), 17: 364
- Macintosh blade for (c.c.), 5: 88
- McIntosh, modification of (c.c.), 20: 115
- mirror (Siker), 17: 38
- modifications of the conventional laryngoscope and technic for laryngoscopy (Wiggin), 5: 61
- new model (Miller), 2: 317
- non-reflecting surface (c.c.), 12: 516
- visual aid attachment (c.c.), 17: 200
- Laryngoscopy
- anesthesia for (Davis), 11: 245
- chest respirator for (c.c.), 18: 135
- reflex circulatory responses to (King & others), 12: 556
- with wrap-around chest respirator (abs.), 20: 127
- Laryngospasm
- during Pentothal anesthesia, intravenous succinylcholine for (corr.), 17: 212
- etiology and treatment (Fink), 17: 569
- Larynx
- contact ulcer granuloma and other complications of endotracheal anesthesia (Jackson), 14: 425
- edema of, following intubation (Shaw), 7: 416
- granulomas (corr.), 16: 295
- of the infant, some anatomic considerations (Eckenhoff), 12: 401
- intubation, a simplified method (c.c.), 12: 658
- operations on, endotracheal anesthesia for (Holinger & Cassels), 5: 583
- reflex, observations on action of thiopental (Pentothal) on (Horita & Dille), 16: 848
- spray (c.c.), 18: 790
- trauma, lack of after use of Carlens catheter (Siebecker & Land), 17: 660
- tumor of (c.c.), 12: 129
- LATTERELL, K. E., and LUNDY, J. S., Oxygen and carbon dioxide content of arterial blood before and during spinal analgesia, 10: 677
- LATTERELL, K. E., see FAULCONER, A., JR., jt. auth.
- LATTERI, F. S., see ANSBRO, F. P., jt. auth.
- LAWRENCE, D., see BERGNER, R. P., jt. auth.
- LAWRENCE, E. D., Spinal epidural block, 9: 601
- LAWRENCE, J. H., see STEPHEN, C. R., jt. auth.
- LAWRENCE, J. S., and BASTRESS, E. K., JR., Combustion characteristics of anesthetics, 20: 192
- LAWRENCE, S. H., and SCHULKINS, T., Serum transaminase levels following prolonged surgical anesthesia, 17: 531
- LAWRENCE, W., Regional meetings of anesthesiologists: their purpose and advantages (edit.), 7: 80
- LEAKE, C. D., see MARSH, D. F., jt. auth.
- LEAR, E., SUNTAY, R., PALLIN, I. M., and CHIRON, A. E., Cyclohexamine (Cl-400): a new intravenous agent, 20: 330
- LEAR, E., see KOTKIN, S., jt. auth.
- LEE, L. D., see FISHER, K., jt. auth.
- LEE, L. E., see MONTMORENCY, F. A., jt. auth.
- LEE, L. E., see SHIDEMAN, F. E., jt. auth.
- LEE, W. L., see CRISCUOLO, D., jt. auth.
- LEE, W. V., ORTH, O. S., WANGEMAN, C. P., and MEEK, W. J., Mechanism of production of spontaneous cardiac irregularities with high concentrations of cyclopropane, 4: 487
- LEHNDORFF, P. G., Audiovisual monitoring of the unborn infant (abs.), 19: 104
- LEIF, P., see PAPPER, E. M., jt. auth.
- LEIGH, M. D., Acidosis during clinical anesthesia, 3: 429
- LEIGH, M. D., and BELTON, M. K., Premedication in infants and children, 7: 611
- LEIGH, M. D., and BENTON, M. K., Special considerations in the selection and employment of anesthetic agents and methods in infants and children, 11: 592
- LEIGH, M. D., JENKINS, L. C., BELTON, M. K., and LEWIS, G. B., Continuous alveolar carbon dioxide analysis as a monitor of pulmonary blood flow, 18: 878
- LEIGH, M. D., and KESTER, H. A., Endotracheal anesthesia for operations on cleft lip and cleft palate, 9: 32
- LEIGH, M. D., MCCOY, D. D., BELTON, M. K., and LEWIS, G. B., Bradycardia following intravenous administration of succinylcholine chloride to infants and children, 18: 698
- LEIGH, M. D., see BOURNE, W., jt. auth.
- LEMERE, F., BEARD, W., and O'HOLGREN, P., Thiopental (Pentothal) reactions and their treatment with ACTH, 13: 86
- Leritine: see Anileridine Dihydrochloride
- LESER, A. J., Duration of local anesthesia in relation to concentrations of procaine and epinephrine, 1: 205

- Levallorphan Tartrate (Lorfan)  
 alphaprodine hydrochloride with, postoperatively (Megirian & others), 18: 610  
 comparative effects of, on respiratory responses to carbon dioxide during narcotic and barbiturate depression in anesthetized man (Landmesser & others), 16: 520  
 effect of, on respiration during and after ether anesthesia (May & others), 18: 871  
 effect upon opiate induced respiratory depression (Hamilton & Cullen), 14: 550  
 opiate antagonist (new), supplementation of nitrous oxide anesthesia with opiates and (Hamilton & Cullen), 16: 22  
 studies with unipolar electroencephalography (Percy & others), 18: 310
- Levo-Dromoran Tartrate: see Levorphan Tartrate
- Levorphan Tartrate (Levo-Dromoran Tartrate)  
 supplementation of nitrous oxide anesthesia with, and new opiate antagonist (Hamilton & Cullen), 16: 22
- LEVINE, H., see BODANSKY, M., jt. auth.  
 LEVIN, M. J., see SADOVE, M. S., jt. auth.  
 LEVY, A., see LYNCH, S., jt. auth.  
 LEVY, L., see HOWARD, J. P., jt. auth.  
 LEVY, L., see PITTINGER, C. B., jt. auth.  
 LEVY, S., and CONROY, L., Prothrombin time and anesthesia: A clinical investigation on the effects of ether and spinal anesthesia on the prothrombin level of the blood, 7: 276
- LEWIS, G. B., see LEIGH, M. D., jt. auth.  
 LI, T. H., and ETSTEN, B., Cardio-circulatory effects of muscle relaxants during cyclopropane anesthesia in man (abs.), 20: 131
- LI, T. H., see ETSTEN, B., jt. auth.  
 LIANG, H. S., and DODD, R. B., A clinical evaluation of isopropyl chloride anesthesia, 17: 297
- LIBET, B., see FEINSTEIN, B., Nerve block by mephenesin, 14: 333
- Lidocaine Hydrochloride (Xylocaine)  
 anesthesia, severe methemoglobinemia following dental extractions under (c.c.), 17: 204  
 comparative qualities (Crawford), 14: 278, (correction), 14: 623  
 comparison of meperidine, thiopental and, as depressants of cough reflex (abs.), 20: 136  
 intravenous injection of, electroencephalogram of cat after (Acheson & others), 17: 802  
 spread of, and I-131 solution in epidural space (Nishimura & others), 20: 785  
 topical tracheal analgesia with (c.c.), 19: 803
- LIEBERMAN, S. L., Experiences with Pentothal sodium anesthesia in war casualties, 5: 517
- LIN, M. K., see HERSHEY, S. G., jt. auth.  
 LIN, S., see COHEN, H. P., jt. auth.  
 LIND, S., see NEFF, W., jt. auth.  
 LINDE, H. W., Estimation of ethylvinyl ether (Vinamar) in blood, 19: 254  
 LINDE, H. W., Estimation of trifluoroethylvinyl ether (Fluoromar) in blood, 17: 777  
 LINDE, H. W., and PRICE, H. L., Gas analyzer for rapid estimation of cyclopropane, 19: 757
- LINDE, H. W., and LURIE, A. A., Infrared analysis for carbon dioxide in respired gases containing cyclopropane and ether, 20: 45
- LINDE, H. W., see DUNDEE, J. W., jt. auth.  
 LINDE, H. W., see LURIE, A. A., jt. auth.  
 LINDE, H. W., see PRICE, H. L., jt. auth.  
 LINDE, H. W., see SADOVE, M. S., jt. auth.  
 LINDERHOLM, H., see GORDH, T., jt. auth.  
 LINDSTROM, C. A., see MOORE, D. C., jt. auth.  
 LINEGAR, C. R., see BURKE, J. C., jt. auth.  
 LING, A. S. C., TRUITT, E. B., and KRANTZ, J. C., JR., Anesthesia LIX: effect of anesthesia with ether, Fluoromar, and thiopental sodium on Indoklon-induced cerebral cortical seizures, 20: 173
- LING, A. S. C., see KRANTZ, J. C., JR., jt. auth.  
 LING, J. S. L., see KRANTZ, J. C., JR., jt. auth.  
 LINC, J. S. L., see LU, G., jt. auth.
- Lipiodo-bronchography, the anesthetists interest in (Sommerfield), 3: 61
- LIPSCHITZ, E., see FOLDES, F. F., jt. auth.
- LISA, J. R., see BURDICK, D. L., jt. auth.
- LITTLE, D. M., The "curare problem" (edit.), 18: 126
- LITTLE, D. M., Hypothermia (review), 20: 842
- LITTLE, D. M., Induced hypotension during anesthesia and surgery, 16: 320
- LITTLE, D. M., Monitoring, instrumentation and anesthesia (edit.), 19: 785
- LITTLE, D. M., and BARBOUR, C. M., Hepatic function following Fluothane anesthesia (abs.), 19: 105
- LITTLE, D. M., CRETEUR, C. A. J., and TOVELL, R. M., A comparison of duration of hypnotic doses of thiopental and methitural for electroshock therapy, 20: 177
- LITTLE, D. M., and GIVEN, J. B., Measurement of electrical and mechanical events in the cardiac cycle during cyclopropane anesthesia (abs.), 20: 132
- LITTLE, D. M., HAMPTON, L. J., and WHITE, M. L., Asphyxia neonatorum: the syndrome, its prevention, and its treatment, 13: 518
- LITTLE, D. M., and STEPHEN, C. R., Modern balanced anesthesia: a concept, 15: 246
- LITTLE, D. M., see CERTNER, S. B., jt. auth.  
 LITTLE, D. M., see HAMPTON, L. J., jt. auth.  
 LITTLE, D. M., see TOVELL, R. M., jt. auth.
- LITTLE, W. A., and FRIEDMAN, E. A., Anesthesia for the twin delivery, 19: 515
- Liver  
 disease  
 effect on procaine metabolism (Hulpieu & others), 11: 333  
 Pentothal anesthesia in presence of (Scheifley), 7: 263  
 effect of  
 anesthetic agents on hepatic structure and function in dogs (Green & others), 20: 776  
 cyclobutane (Krantz & others), 9: 594  
 hypothermia on morphine metabolism by the isolated perfused (Rink & others), 17: 377  
 intravenous procaine (Steinberg), 10: 739



- procaine on function of (Jacoby & others), 9: 481
- propethylene (Evans & others), 6: 39
- thiopental with or without oxygen on function of (Walton & others), 12: 67
- function
- following Fluothane (abs.), 19: 105
- relation to anesthesia (Hugill), 11: 567
- glycogen, effect of prolonged thiopental anesthesia on (Booker), 7: 405
- hepatorenal syndrome following Vinethene (Hawk & others), 2: 388
- influence of, on the duration of barbiturate anesthesia (Masson & Beland), 6: 483
- pentothal, concentration in (Bollman & others), 11: 1
- relationship to drug protection against shock (Rovenstine & others), 20: 290
- role of
- from the standpoint of the anesthetist (Mousel & Lundy), 1: 40
- in hyperglycemia during anesthesia (Johnson), 10: 379
- in the rapid metabolism of thiopental sodium (Meyers & Peoples), 15: 146
- in thiopental detoxication (Shideman & others), 10: 421
- postoperative reduction of prothrombin in the jaundiced and biliary fistula patient with special reference to anesthesia, studies on (Allen & Livingstone), 1: 89
- LIVINGSTONE, H. M., Three decades of ethylene-oxygen anesthesia, 16: 224
- LIVINGSTONE, H. M., WILNER, W. K., JR., PETERS, M. P., and WEYGANDT, G. R., A combined key-sort anesthesia and recovery room record, 11: 422
- LIVINGSTONE, H. M., see ALLEN, J. G., jt. auth.
- LIVINGSTONE, H. M., see BARTON, G. D., jt. auth.
- LIVINGSTONE, H. M., see JACOBY, J. J., jt. auth.
- LIVINGSTONE, H. M., see JOHNSON, N. J., jt. auth.
- LIVINGSTONE, H. M., see LORINCZ, A. L., jt. auth.
- LIVINGSTONE, H. M., see THORNTON, T. F., jt. auth.
- LIVINGSTONE, H. M., see UHL, J. W., jt. auth.
- LIVINGSTONE, R. M., see TING, K. S., jt. auth.
- LIVINGSTONE, W. K., see HAUGEN, F. P., jt. auth.
- LLOYD, M. S., A technic and a new laryngoscope for intubation in endotracheal anesthesia, 11: 206
- Local Anesthetics: see Anesthesia, local
- LOCKHART, G., see KENNEDY, R. J., jt. auth.
- LOEHNING, R. W., and HAMILTON, W. K., Respiratory studies on dogs with Arfonad induced hypotension and constant volume ventilation (abs.), 19: 106
- Long, Crawford Williamson (Collier), 4: 279
- LONG, J. H., OPPENHEIMER, M. J., WESTER, M. R., and DURANT, T. M., The effect of intravenous procaine on the heart, 10: 406
- LONG, J. H., see LACHMAN, R. J., jt. auth.
- LONG, J. P., and PITTINGER, C. B., Laboratory observations on the cardiovascular and respiratory effects of Fluothane (abs.), 19: 106
- LONG, J. P., see WATLAND, D. C., jt. auth.
- LOOMIS, T. A., and BEYER, R. E., Apparatus for the continuous and simultaneous measurement of carbon dioxide and nitrous oxide in respired air, 12: 173
- LOPINTO, F. J., see BURSTEIN, C. L., jt. auth.
- Lorfan: see Levallophan Tartrate
- LORHAN, P. H., The clinical use of (sodium 5 ethyl-5 (1-methyl-1 butenyl) barbiturate) vinbarbital sodium as a preanesthetic agent, 5: 370
- LORHAN, P. H., GUERNSEY, G., and HARLESS, M., Histopathological changes in rats following administration of Pentothal sodium and sulfanilamide, 2: 326
- LORHAN, P. H., GUERNSEY, G., and PUGH, A. E., Determination of the dosage-mortality ratio of Pentothal sodium with toxic doses of sulfanilamide following, 2: 456
- LORHAN, P. H., see MILLER, M. I., jt. auth.
- LORINCZ, A. L., JACOBY, J. J., and LIVINGSTONE, H. M., Studies on the parenteral administration of hydrogen peroxide, 9: 162
- LOWELL, V. F., see SHIDEMAN, F. E., jt. auth.
- LOWENTHAL, P. J., and RUSSELL, A. S., Recovery room: life saving and economical, 12: 470
- LU, G., BRAHEN, L. S., and KRANTZ, J. C., Anesthesia. XXXVIII: Quantitative measurement of mucosal irritation of volatile anesthetics, 14: 143
- LU, G., and KRANTZ, J. C., Anesthesia. XXXIX: The *in vitro* studies of the influence on adenosine triphosphate (ATP) dephosphorylation by central depressants and stimulants, 14: 348
- LU, G., LING, J. S. L., and KRANTZ, J. C., Anesthesia. XLI. The anesthetic properties of certain fluorinated hydrocarbons and ethers, 14: 466
- Lubricants, nonexplosive (c.c.), 18: 506
- Lucaine: see Piridocaine Hydrochloride
- LUCAS, B. G. B., Some observations on anoxia, 12: 762
- LUDUENA, F. P., Ravocaine and Sympocaine, new local anesthetics, 16: 751
- LUDUENA, F. P., see BROWN, T. G., jt. auth.
- Ludwig's angina, anesthesia for (Bennett), 4: 25
- LUHN, N. R., see WU, N., jt. auth.
- Lumbar Anesthesia: see Anesthesia, spinal
- Lumbar Puncture: see Spinal Puncture
- LUND, P. C., Role of conduction anesthesia in the management of eclampsia, 12: 693
- LUND, P. C., and CAMERON, J. D., Hypobaric pontocaine; a new technic in spinal anaesthesia, 6: 565
- LUND, P. C., CUIK, J. C., and MAGAZINER, R., Epidural anesthesia in general surgery, 17: 605
- LUND, P. C., and RUMBALL, A. C., Hypobaric Pontocaine spinal anesthesia. 1,640 consecutive cases, 8: 181
- LUNDY, J. S., The anesthesiologist and civil defense (edit.), 15: 436
- LUNDY, J. S., Cortisone problems involving anesthesia, 14: 376

LUNDY, J. S., Presidential address (edit.), 7: 441  
 LUNDY, J. S., Presidential address (edit.), 8: 200  
 LUNDY, J. S., Trends in anesthesiology, 11: 238  
 LUNDY, J. S., and ADAMS, R. C., Intravenous anesthesia, 1: 145  
 LUNDY, J. S., see ADAMS, R. C., jt. auth.  
 LUNDY, J. S., see ANDERSON, M. E., jt. auth.  
 LUNDY, J. S., see BOLLMAN, J. L., jt. auth.  
 LUNDY, J. S., see FIELDMAN, E. J., jt. auth.  
 LUNDY, J. S., see LATTERELL, K. E., jt. auth.  
 LUNDY, J. S., see MOUSEL, L. H., jt. auth.  
 LUNDY, J. S., see PAULSON, J. A., jt. auth.  
 LUNDY, J. S., see PENDER, J. W., jt. auth.  
 LUNDY, J. S., see ROBBINS, B. H., jt. auth.  
 LUNDY, J. S., see ROSENOW, E. C., jt. auth.  
 LUNDY, J. S., see SELDON, T. H., jt. auth.  
 LUNDY, J. S., see STORNI, M. P. C., jt. auth.  
 Lung  
   aberrant thymic tissue in, with bronchial compression and sudden death during anesthesia (Patterson & Heller), 4: 233  
   collapse, massive bilateral pulmonary atelectasis during inhalation anesthesia (case report), 15: 571  
   compliance of, in dogs under influence of muscle relaxants (Safar & Bachman), 17: 334  
   continuous alveolar carbon dioxide analysis as monitor of pulmonary blood flow (Leigh & others), 18: 878  
   disease, influence on choice of anesthesia (Mousel), 11: 495  
   effect of  
     muscle relaxants on (abs.), 20: 122  
     positive pressure (Watrous & others), 11: 661  
   function, range of normals (Nathan & Scialli), 16: 816  
   functional anatomy of (Vandam), 13: 130  
   Pentothal concentration in (Bollman & others), 11: 1  
   preoperative recognition and treatment of bronchopulmonary disease (Miller & others), 18: 483  
   pulmonary  
     complications after thoracotomy, Alevaire as adjunct for (Ruben & others), 16: 801  
     emphysema, anesthesia for, use of positive-negative pressure respirator during pulmonary surgery (Siebecker & Curtis), 18: 856  
     pulmonary function studies following intrathoracic procedures (abs.), 18: 174  
   surgery, anesthesia for, case reports, 17: 201  
   thorax  
     compliance  
       changes, performance of ventilators (Elam & others), 19: 56  
       during orthopedic surgery (Lynch & others), 20: 278  
     volume and its subdivisions, significance of changes in during and after abdominal operations (Altschule), 4: 385  
 LURIE, A. A., JONES, R. E., LINDE, H. W., PRICE, M. L., DRIPPS, R. D., and PRICE, H. L., Cyclopropane anesthesia. I. Cardiac rate

and rhythm during steady levels of cyclopropane anesthesia at normal and elevated end-expiratory carbon dioxide tensions, 19: 457  
 LURIE, A. A., see LINDE, H. W., jt. auth.  
 LURIE, A. A., see PRICE, H. L., jt. auth.  
 Lymph, Pentothal in, concentration of (Bollman & others), 11: 1  
 Lymphangitis, after morphine injection (Salter and White), 10: 553  
 LYNCH, P. R., WEBBER, D. L., and OPPENHEIMER, M. J., Mephentermine as an antifibrillatory drug against cyclopropane-epinephrine ventricular fibrillation, 16: 632  
 LYNCH, P. R., see GREISHEIMER, E. M., jt. auth.  
 LYNCH, S., BRAND, L., and LEVY, A., Changes in lung thorax compliance during orthopedic surgery, 20: 278  
 LYNCH, S., LEVY, A., and ELLIS, K., Effects of alternating positive and negative endotracheal pressures on the caliber of bronchi, 20: 325  
 LYONS, S. S., Adaptation of continuous nitrous oxide to the "to and fro" carbon dioxide absorption technic, 2: 321  
 LYTER, C. S., see BONICA, J. J., jt. auth.  
 McALLISTER, F. F., and ROOT, W. S., Neurogenic control of the circulation of dogs under ether anesthesia, 3: 491  
 MCCARTHY, K. C., The administration of nitrous oxide and oxygen, 11: 485  
 MCCARTHY, K. C., Endotracheal nitrous oxide anesthesia for tonsillectomy, 1: 216  
 MCCLUSKEY, C. F., Abdominal relaxation with combined regional and cyclopropane anesthesia, 1: 26  
 MCCONN, R., see MOYER, J. H., jt. auth.  
 MCCOY, D. D., see LEICH, M. D., jt. auth.  
 McCUNE, F. K., ARNEY, G. K., BAXTER, C. R., DeGROSSE, J. J., and JENICEK, J. A., Arterial oxygen desaturation in severely burned patients: its significance to the anesthesiologist (abs.), 20: 133  
 McDERMOTT, T. F., see O'DONNELL, J. A., jt. auth.  
 McDONALD, W. L. J., WELCH, H. J., and KEET, J. E., Antisepsis of endotracheal tubes and face masks, 16: 206  
 McELVAIN, S. M., see ROSE, C. L., jt. auth.  
 MACHEJ, T. S., see FOLDES, F. F., jt. auth.  
 MCINTYRE, A. R., Historical background, early use and development of muscle relaxants, 20: 409  
 MCINTYRE, A. R., see BURKE, J. C., jt. auth.  
 MACKRELL, T. H., see COLON-YORDAN, E., jt. auth.  
 MACKRELL, T. N., see MENDELSON, D., jt. auth.  
 MACKRELL, T. N., see STONE, H. H., jt. auth.  
 MAC LACHLAN, M. A., see MENDELSON, D., jt. auth.  
 McLEMORE, G. A., see VANDAM, L. D., jt. auth.  
 MacLEOD, E. J., see GRIFFITH, H. R., jt. auth.

- McMILLEN, N. R. J., HAMPTON, L. J., and DRILL, V. A., The effect of dibenamine on cyclopropane-epinephrine arrhythmias, 11: 8
- McNALL, P. G., see BRUNN, H. M., jt. auth.
- McNALL, P. G., see FOLDES, F. F., jt. auth.
- McNEAL, A., The problems for the anesthetist when extreme relaxation is needed for the patient with toxemia of pregnancy, 11: 96
- MACON, E. B., and BRUNER, H. D., The scientific aspect of endotracheal tubes, 11: 313
- McQUILLEN, F. A., Observations on the literature on anesthesia, 8: 80
- McQUISTON, W. O., Anesthetic problems in cardiac surgery in children, 10: 590
- McQUISTON, W. O., CULLEN, S. C., and COOK, E. V., Arterial oxygen tension with nitrous oxide anesthesia, 4: 145
- McQUISTON, W. O., see CULLEN, S. C., jt. auth.
- McQUISTON, W. O., see WETCHLER, B. V., jt. auth.
- MAGAZINER, R., see LUND, P. C., jt. auth.
- Magill forcep, breakage of (c.c.), 10: 511
- MAGILL, I. W., Recent developments in anesthesia in the British Isles with particular reference to induced hypotension (edit.), 15: 103
- Magnesium, parenterally, the pharmacological actions of, a review (Smith & others), 3: 323
- MAHONEY, E. B., see COLGAN, F. J., jt. auth.
- MAIER, H. C., Responsibility of the anesthetist in reducing the operative complications of thoracic surgery, 5: 11
- MAKARENKO, L. I., see GREISHEIMER, E. M., jt. auth.
- MAKEL, H. P., POU, L. H., and CHIPPS, J. E., Anesthesia in maxillofacial surgery, 14: 498
- MALONEY, J. V., DERRICK, W. S., and WITTENBERGER, J. L., Device producing regulated assisted respiration. II. The prevention of hypoventilation and mediastinal motion during intrathoracic surgery, 13: 23
- MALONEY, J. V., DERRICK, W. S., WITTENBERGER, J. L., and ISAACS, J. P., Method for the measurement of pulmonary ventilation during anesthesia, 13: 571
- Malpractice  
prevention of claims (c.c.), 18: 794  
related to anesthesiologist (Murphy & Martin), 20: 99  
suits, anesthesiologists, surgeons and (edit.), 20: 377
- MALT, R. A., Effect of preanesthetic medication on cardiovascular force, 19: 353
- MALTON, S. D., see MOE, G. K., jt. auth.
- MANGIARACINE, A. B., see HALLOWELL, P., jt. auth.
- MANN, F. C., see GOLDEN, R. F., jt. auth.
- MANN, L. S., see GUEST, S. I., jt. auth.
- MANN, S. H., A method for the administration of Pentothal sodium anesthesia, 6: 279
- MANNHEIMER, W. H., KUROSO, Y., and KEATS, A. S., Biochemical changes induced by the low flow pump oxygenator during cardiopulmonary by-pass in man (abs.), 19: 107
- MANNING, J. A., see COLGAN, F. J., jt. auth.
- Manometer, aneroid, for arterial blood pressure (c.c.), 18: 906
- MARANGONI, B. A., see BURSTEIN, C. L., jt. auth.
- MARBURY, B. E., A study of the blood-oxygen saturation in children under rectal Pentothal anesthesia, 11: 589
- MARCUS, P. S., and SHEEHAN, J. C., Treatment of postoperative vomiting, 16: 423
- MARCUS, P. S., see MEGIRIAN, R., jt. auth.
- Marezine: see Cyclizine Hydrochloride; Cyclizine Lactate
- MARGOLIS, G., see BOURGEOIS-GAVARDIN, M., jt. auth.
- MARGOLIS, G., see JONES, W. M., jt. auth.
- MARGOLIS, G., see NOWILL, W. K., jt. auth.
- MARGOLIS, G., see STEPHEN, C. R., jt. auth.
- MARK, L. C., On species differences (edit.), 19: 799
- MARK, L. C., FOX, J. L., and BURSTEIN, C. L., Preanesthetic hypnosis with rectal Pentothal in children, 10: 401
- MARMER, M. J., Use of sciatic nerve block for producing vasodilatation of the lower extremity and comparative study with paravertebral lumbar sympathetic ganglion block, 13: 207
- MARSH, D. F., and LEAKE, C. D., The comparative anesthetic activity of the aliphatic ethers, 11: 455
- MARSH, D. F., see ABREU, B. E., jt. auth.
- MARTIN, J. T., FAULCONER, A., and BICKFORD, R. G., Electroencephalography in anesthesiology (review), 20: 359
- MARTIN, N. T., see MILES, G. G., jt. auth.
- MARTIN, R. C., NOWILL, W. K., and STEPHEN, C. R., An evaluation of succinylcholine, 15: 179
- MARTIN, R., see BORDERS, R. W., jt. auth.
- MARTIN, R., see STEPHEN, C. R., jt. auth.
- MARTIN, R. C., see THORNTON, T. F., jt. auth.
- MARTIN, S. J., Instruction in anesthesiology at Tilton General Hospital, 3: 433
- MARTIN, S. J., Statistics and biometrics in anesthesia (edit.), 20: 881
- MARTIN, S. J., and BATTERMAN, R. C., The control of gastro-intestinal tone and motility with Novatropine, 1: 301
- MARTIN, S. J., HERRLICH, H. C., and CLARK, B. B., The effect of various tissues on the detoxification of Evipal in the dog, 1: 153
- MARTIN, S. J., and ROVENSTINE, E. A., Vinethene: recent laboratory and clinical evaluation, 2: 285
- MARTIN, S. J., and SCHWAB, J. M., Blast injuries and their anesthetic management, 6: 131
- MARTIN, S. J., see MURPHY, J. D., jt. auth.
- MARTIN, S. J., see WANGEMAN, C. P., jt. auth.
- MARTON, R., SPITZER, N., and STEINBROCKER, D., Intravenous procaine as an analgesic and therapeutic procedure in painful, chronic neuromusculoskeletal disorders, 10: 629
- MARVIN, F. W., Spinal anesthesia with a procaine-pontocaine solution: one hundred cases, 9: 434
- MARX, G. F., and ORKIN, L. R., Physiological changes during pregnancy: a review, 19: 258

- Mass Spectrometer  
analysis of gases  
in blood (Faulconer), 14: 405  
determination of diethyl ether (Jones & others), 14: 490  
determination of nitrous oxide (Hattox & others), 14: 584  
total extraction of gases for determination of carbon dioxide and oxygen in blood (Patrick & others), 15: 95  
total extraction of gases for determination of cyclopropane (Possati & others), 15: 196
- MASSION, W. H., and WHITE, J. M., The effect of anesthesia and muscle relaxants on the elastic properties of the human thorax (abs.), 20: 134
- MASSON, G. M. C., and BELAND, E., Influence of the liver and the kidney on the duration of anesthesia produced by barbiturates, 6: 483
- MATHEWS, W. A., and DERRICK, W. S., Anesthesia in the patient with myasthenia gravis, 18: 443
- MATHIEU, T. J., and CRANDELL, W. B., Pyribenzamine as a topical anesthetic agent: Its use in bronchoscopy, 14: 572
- MATTHEWS, J. H., BUCKLEY, J. J., and VAN BERGEN, F. H., Acute effect of low flow extracorporeal circulation on cerebral physiology (abs.), 16: 169
- MAUK, M. H., see COAKLEY, C. S., jt. auth.
- MAURER, E. R., Anesthetic problems in thoracic surgery, 9: 183
- MAURER, R. T., see HELLIJAS, C. S., jt. auth.
- MAXWELL, G. M., ROWE, G. C., CASTILLO, C., SCHUSTER, B., WHITE, D. H., and CRUMPTON, C. W., Hemodynamic effects of chlorpromazine: including studies of cardiac work and coronary blood flow, 19: 64
- MAY, G., PHILLIPS, M., and ADRIANI, J., Effect of N-allylnormorphine and levallorphan on respiration during and after ether anesthesia, 18: 871
- MAYER, E. C., and NEFF, W., Further experiences with endotracheal ether-air anesthesia for intrathoracic surgery, 7: 32
- MEALS, W. G., A satisfactory anesthesia for the fenestration operation, 9: 644
- Meclizine Hydrochloride (Bonamine) evaluation of, in lowering incidence of postoperative nausea and vomiting (Tillman & others), 17: 112
- MEDBURY, S. E., see HESSELSCHWERDT, D. W., jt. auth.
- Medical  
writing, author's best friend (edit.), 19: 555  
societies (edit.), 4: 197  
Medication: see under names of specific agents and drugs
- Medicine  
practice  
anesthesiology—consultative practice (edit.), 15: 320  
group private, of anesthesiology, tested plan of organization (Eather), 15: 689
- Medomin, effect on heart (Halbeisen & others), 10: 585
- Medulla, sodium succinate in pentobarbital depression of, and cerebral cortex (Larson & others), 16: 239
- MEEK, W. J., see ALLEN, C. R., jt. auth.
- MEEK, W. J., see LEE, W. V., jt. auth.
- MEEK, W. J., see MURPHY, Q., jt. auth.
- MEEK, W. J., see ORTH, O. S., jt. auth.
- MEEK, W. J., see STUTZMAN, J. W., jt. auth.
- Megimide: see  $\beta,\beta$ -Methylethylglutarimide
- MEGIRIAN, R., WHITE, C. W., JR., and MARCUS, P. S., Alphaprodine hydrochloride with levallorphan tartrate or RO 1-7780 postoperatively, 18: 610
- MELVILLE, K. I., On the pressor activity and stability of different mixtures of ephedrine and pituitary (posterior lobe) extract, 7: 176
- MELVILLE, K. I., see DOBKIN, A. B., jt. auth., 17: 135
- MELZACK, R., see HAUGEN, F. P., jt. auth.
- MENAKER, J. C., see RICHARDS, R. K., jt. auth.
- MENDELSON, D., MACKRELL, T. N., MAC LACHLAN, M. A., CROSS, F. S., and KAY, E. B., Experience using the pump-oxygenator for open cardiac surgery in man, 18: 223
- MENDENHALL, J. R., see SIEBECKER, K. L., jt. auth.
- Meningitis, aseptic, following lumbar epidural block (case report), 16: 464
- Mental  
disturbances following nitrous oxide anesthesia (Batten & Courville), 1: 261  
function, relation to cerebral metabolism (Kety), 10: 610  
suggestion, aid to anesthesia (Raginsky), 9: 472
- Mepazine (Pacatal), pharmacodynamic control of myocardial irritability in dogs by (Corssen & others), 19: 733
- Meperidine (Demerol; Pethidine)  
analgesic action, during labor (Javert & Hardy), 12: 189  
antagonist—Ritalin (abs.), 19: 101  
asphyxia, effect on signs of, during nitrous oxide anesthesia (Allen & others), 10: 168  
blood gases, effect on, during parturition (Brown and Volpito), 11: 651  
comparative local anesthetic properties of (Everett), 9: 115  
comparison of thiopental, lidocaine and, as depressants of cough reflex (abs.), 20: 136  
intravenously, with scopolamine, for obstetrical amnesia (Brown & others), 10: 15  
man, effect of, on (Orkin & others), 17: 30  
myocardial contractility, influence of, on, in intact dog (Sugioka & others), 18: 623  
nitrous oxide  
supplement to (Brotman and Cullen), 10: 696  
supplement to (Brotman & others), 11: 527  
supplement to (Wilkins & others), 12: 145  
supplementation of, recovery time following (Widdowson), 16: 747

- supplementation of with, new opiate antagonist (Hamilton & Cullen), 16: 22
- for patients sensitive to morphine (Narodick & Steele), 9: 285
- respiration, effect of (Orkin & others), 16: 699
- spinal fluid pressure, effect on (Kepes), 13: 281
- studies with unipolar electroencephalography (Percy & others), 18: 310
- utility of as a substitute for the opiates in pre-anesthetic medication (Rovenstine & Batterman), 4: 126
- Mephnesin** (Myanesin; Tolserol)
- nerve block (Feinstein & Libet), 14: 333
- study in postoperative pain relief (Selvin), 15: 174
- Mephentermine**
- antifibrillatory drug against cyclopropane-epinephrine ventricular fibrillation (Lynch & others), 16: 632
- use, pressor agent during spinal anesthesia (Smessaert & Collins), 16: 795
- Meprobamate** (Miltown, Equinal), as preanesthetic medication for regional procedures (Eger & Keasling), 20: 1
- MERSCH, M. M.**, see FITZPATRICK, L. J., jt. auth.
- MESSENT, D.**, see BEACONSFIELD, P., jt. auth.
- Metabolism:** see also under names of specific substances
- acidosis
- and hyperventilation (c.c.), 20: 721
- of hyperventilation produced by controlled respiration (Papadopoulos & Keats), 20: 156
- cell, and anesthetics (Gerard), 8: 453
- cerebral, and circulation, effect on, of acute reduction in blood pressure by means of intravenous hexamethonium bromide and head-up tilt (Stone & others), 16: 168
- consequences of epinephrine and insulin administered during ether anesthesia (abs.), 19: 104
- effects of thyroid hormones on hemodynamic and metabolic response to epinephrine and norepinephrine (abs.), 18: 156
- of muscle relaxants (Kalow), 20: 505
- Methadon**
- clinical
- experience with (Kirchhof & David), 9: 585
- observations on (Robbins), 10: 280
- effectiveness and toxicity of (Batterman & Oshlag), 10: 214
- local anesthetic properties of (Everett), 9: 115
- Metahydroxyprocaine**, local anesthetic action of (Kranz & others), 12: 57
- Methantheline Bromide**
- control of vagal cardiovascular reflexes during surgery (Fisher & Winsor), 14: 596
- substitute for atropine in pediatric and oral surgery (corr.), 16: 653
- use of, as drying agent for pediatric anesthesia (Alver & Vander Wood), 17: 73
- Methedrine**
- coronary circulation, coronary circulation (Eckenhoff), 11: 168
- as a vasoconstrictor with spinal anesthesia (Anderson), 7: 1
- Methemoglobinemia**, severe, following dental extractions under lidocaine anesthesia (c.c.), 17: 204
- Methitural Sodium** (Neraval Sodium; Thiogenal)
- electroencephalography with (c.c.), 18: 140
- hypnosis compared with thiopental (Egbert & others), 19: 656
- new ultrashort acting intravenous anesthetic (Fitzpatrick & others), 17: 684
- new ultrashort acting thiobarbiturate (Boone & others), 17: 284
- nitrous oxide anesthesia for standard short procedure, recovery from (Gale), 18: 573
- and thiopental for electroshock therapy, comparison of duration of hypnotic doses (Little & others), 20: 177
- Methoxamine Hydrochloride**, as a vasopressor during spinal analgesia (Poe), 13: 89
- Methylal**, anesthesia with, in animals (Virtue), 12: 100
- Methylcyclobutane**, pharmacologic response to (Krantz & others), 10: 625
- Metopryl** (see Ether, n-propyl methyl)
- Metrazol:** see Pentamethylenetetrazol
- Metycaine:** see Piperocaine
- 1-Methyl-5-Allyl-5-(1-Methyl-2-Pentynyl) Barbituric Acid** (Compound 22451)
- ultrashort acting barbiturate, comparison with thiobarbiturate during anesthesia (Gruber & others), 18: 50
- Methylcellulose**, objective method of evaluating topical anesthesia utilizing laryngeal reflex, effect of methylcellulose, triton A-20, and hyaluronidase (Clark & others), 15: 161
- $\beta,\beta$ -Methylethylglutarimide** (Megimide)
- effect of, and thiopental in dogs (Virtue & Kaster), 18: 686
- and pentamethylenetetrazol, relative potency (Boyan & others), 19: 321
- Methylparafynol** (Dormison): see under Barbiturates, ethinyl
- Methylphenidate** (Ritalin)
- barbiturate and meperidine antagonist (abs.), 19: 101
- effect on thiopental recovery (Gale), 19: 521
- METZ, D. B.**, see HERSHEY, S. C., jt. auth.
- MEYERS, F. H.**, and PEOPLES, D., The positive role of the liver in the rapid metabolism of thiopental, 15: 146
- MIH, A.**, see SWARTZ, C. H., jt. auth.
- MILES, B. E.**, and CHURCHILL-DAVIDSON, H. C., The effect of hypothermia on the renal circulation of the dog, 16: 230
- MILES, G. H.**, MARTIN, N. T., and ADRIANI, J., Factors influencing the elimination of nitrogen using semiclosed inhalers, 17: 213
- MILES, H. H. W.**, see TUCCI, J. H., jt. auth.
- MILLER, A. H.**, Ether anesthesia: yesterday, today and tomorrow, 8: 471



- MILLER, A. H., Surgical posture: with symbols for its record on the anesthetists chart, 1: 241
- MILLER, A. H., Technical development of gas anesthesia, 2: 398
- MILLER, E. M., see ANDERSON, C. D., jt. auth.
- MILLER, F. A., see BUCKLEY, J. J., jt. auth.
- MILLER, J. R., Anesthesiology (edit.), 8: 641
- MILLER, M. I., and LORHAN, P. H., Clinical evaluation of hypotensive anesthesia, 16: 73
- MILLER, R. A., A new laryngoscope, 2: 317
- MILLER, W. F., CADE, J. R., and CUSHING, I. E., Preoperative recognition and treatment of bronchopulmonary disease, 18: 483
- MILLER, W. F., WU, N., and JOHNSON, R. L., Convenient method of evaluating pulmonary ventilatory function with a single breath test, 17: 480
- MILLER, W. F., see WU, N., jt. auth.
- Military Service anesthesia
- in China-Burma theater (Bone), 6: 612
- endotracheal, in combat zone (Bowers), 6: 492
- impressions of, in military base hospital (Kaye), 3: 247, 379
- in Naval hospitals (Cardwell), 6: 83
- in Navy (corr.), 3: 459
- in an army hospital in New Guinea, experiences with (Hampton & Hammett), 6: 173
- records (Wangeman), 2: 179
- for thoracic surgery, management in an army general hospital overseas (Burstein & Alexander), 8: 36
- wartime (edit.), 5: 294
- anesthetists in (edit.), 2: 90
- problems in supply of anesthetic gases in the European theater of operations, U. S. Army (Tovell), 8: 303
- problems of training in and practice of anesthesiology in the European theatre of operations (Tovell), 8: 64
- MILOWSKY, J. L., and BETANCOURT, R. R., Bilateral paralysis of the abducens and hypoglossal nerves following spinal anesthesia: case report, 6: 600
- MILOWSKY, J. L., and ROVENSTINE, E. A., Suprascapular nerve block: evaluation in the therapy of shoulder pain, 10: 76
- Miltown: see Meproamate
- MILWIDSKY, H., and DEVRIES, A., Regulation of blood pressure during spinal anesthesia: observations on intramuscular pressure and skin temperature, 9: 258
- MILLS, E. L., see ABAJIAN, J., jt. auth.
- MILNER, A., see MOYER, J. H., jt. auth.
- MINOR, G. A., see ANDREWS, P. M., jt. auth.
- MINTZ, S., see HOMEYER, W., jt. auth.
- Mitral Valve commissurotomy, anesthesia for (Pender), 14: 77
- commissurotomy, anesthesia for (Sadove & others), 16: 133
- MOE, G. K., RENNICK, B. R., FREYBURGER, W. A., and MALTON, S. D., The effect of cyclopropane on cardiac work capacity, 10: 706
- MOFFITT, E. A., PATRICK, R. T., SWAN, H. J. C., and DONALD, D. E., A study of blood flow, venous blood oxygen saturation, blood pressure and peripheral resistance during total body perfusion, 20: 18
- MOFFITT, E. A., see PATRICK, R. T., jt. auth.
- MOGG, A., see JACOBY, J., jt. auth.
- Monitors: see Apparatus
- MONK, B. F., see BONICA, J. J., jt. auth.
- Monocaine (Butethamine) formate
- its application in spinal anesthesia (Burdick & Rovenstine), 3: 514
- spinal anesthesia with (Nesbit & Butler), 9: 430
- spinal anesthesia with (Rovenstine & Apgar), 5: 40
- hydrochloride
- pharmacologic effects (Schamp & others), 3: 295, 398
- Monoethanolamine, carbon dioxide absorption properties of (Derrick & Smart), 18: 551
- MONTE, A., see FOLDES, F. F., jt. auth.
- MONTMORENCY, F. A., CHEN, A., RUDEL, H., GLAS, W. W., and LEE, L. E., An evaluation of the cardiovascular-respiratory effects and general pharmacologic properties of 21 hydroxy, 3-20 dione sodium succinate (hydroxydione) (abs.), 19: 108
- MONTMORENCY, F. A., CHEN, A., RUDEL, H., GLAS, W. W., and LEE, L. E., Jr., Evaluation of cardiovascular, respiratory and general pharmacologic properties of hydroxydione, 19: 450
- MOORE, D. C., An evaluation of hyaluronidase in local and nerve block analgesia: a review of 519 cases, 11: 470
- MOORE, D. C., Democracy in the A.S.A. (edit.), 19: 798
- MOORE, D. C., Use of hyaluronidase in local and nerve block analgesia other than spinal block: 1520 cases, 12: 611
- MOORE, D. C., Pontocaine hydrochloride for brachial block analgesia: one hundred and fifty cases, 9: 281
- MOORE, D. C., The use of Pontocaine hydrochloride for nerve block and infiltration analgesia, therapeutic, and diagnostic blocks: 1004 cases, 11: 65
- MOORE, D. C., ANDERSON, L. G., WHEELER, G., and SCHEIDT, J., Use of parenteral Dramamine to control postoperative vomiting; a report of 1192 cases, 13: 354
- MOORE, D. C., and BRIDENBAUGH, L. D., Pneumothorax. Its incidence following brachial plexus block analgesia, 15: 475
- MOORE, D. C., BRIDENBAUGH, L. D., PICCIONI, V. F., ADAMS, P. A., and LINSTROM, C. A., Control of postoperative vomiting with Marezine: a double blind study, 17: 690

- MOORE, D. C., BRIDENBAUGH, L. D., VAN ACKEREN, E. G., BELDA, F. B., and COLE, F. V., Spread of radiopaque solutions in the epidural space of the human adult corpse, 19: 377
- MOORE, D. C., BRIDENBAUGH, L. D., VAN ACKEREN, E. G., and COLE, F. V., Control of postoperative vomiting with perphenazine (Trilafon): A double blind study, 19: 72
- MOORE, T. M., see SANTIAGO, M., jt. auth.
- MORACA, P. P., see HALE, D. E., jt. auth.
- MORALES, G. A., see ORKIN, L. R., jt. auth.
- Morphine
- analgesia, effect of epinephrine on (Gross & others), 9: 459
  - basal anesthesia in children with (Artusio & Trousdell), 11: 443
  - biliary spasm and nalorphine (c.c.), 20: 713
  - combined action with central stimulants and its relation to the treatment of morphine poisoning (Hazleton & Koppányi), 2: 427
  - delayed poisoning (abs.), 5: 273
  - effect of
    - and cyclopropane upon cardiovascular functions in dog (Greisheimer & others), 18: 196
    - and ether upon cardiovascular functions in dog (Greisheimer & others), 18: 73
    - and thiopental sodium-oxygen upon cardiovascular functions in dog (Greisheimer & others), 17: 798
    - on respiration (Orkin & others), 16: 699
  - effect on
    - circulation of man, and upon the circulatory and respiratory responses to tilting (Drew & others), 7: 44
    - ether hyperglycemia (Watts), 13: 33
    - human subjects (Wangeman & Hawk), 3: 24
    - respiration of normal man, administered intravenously or intramuscularly (Dripps & Comroe), 6: 462
    - respiratory center (abs.), 19: 95
    - respiratory minute volume (Bennett & others), 10: 548
    - signs of asphyxia during nitrous oxide anesthesia (Allen & others), 10: 164
  - effects compared with mixture of morphine and diaminophenylthiazole (Daptazole) (Fraser & others), 18: 531
  - heart rate, action in slowing in unconditioned dogs (Allen & others), 6: 149
  - influence on apnea, alone and combined with atropine and scopolamine (Burstein), 2: 530
  - intravenous use of, a critical analysis (Presman & Schotz), 4: 53
  - metabolism in isolated perfused liver, effect of hypothermia on (Rink & others), 17: 377
  - new concepts of morphine analgesia (Slaughter), 5: 508
  - poisoning, severe barbiturate-morphine (case report), 14: 97
  - respiratory depression
    - comparison of amphetamine with other stimulant drugs (Handley & Ensberg), 6: 531
    - effect of N-allylnormorphine upon (Landmesser & others), 14: 535
    - sensitivity to (Salter and White), 10: 553
    - sensitivity, use of Demerol (Narodick & Steele), 9: 285
    - solutions containing sodium bisulfite, analgesic effectiveness of (Keats & Beecher), 14: 140; (corr.), 15: 108
    - supplement to nitrous oxide (Brotman & others), 11: 527
    - supplementation of nitrous oxide (Wilkins & others), 12: 145
- MORRIS, G. C., KEATS, A. S., MOYER, J. H., and DE BAKEY, M. E., Renal function during anesthesia for cardiovascular surgery, 20: 608
- MORRIS, G. C., see MOYER, J. H., jt. auth.
- MORRIS, L. E., New vaporizer for liquid anesthetic agents, 13: 587
- MORRIS, L. E., An overhead boom for gas piping systems, 14: 412
- MORRIS, L. E., and FELDMAN, S. A., Considerations in the design and function of anesthetic vaporizers, 19: 642
- MORRIS, L. E., and HAMD, B., Effects of procaine amide on cardiac irregularities during cyclopropane anesthesia, 12: 328
- MORRIS, L. E., KNOTT, J. R., and PITTINGER, C. B., Electro-encephalographic and blood gas observations in human surgical patients during xenon anesthesia, 16: 312; (erratum), 16: 563
- MORRIS, L. E., NOLTENSMAYER, M. H., and WHITE, J. M., Epinephrine induced cardiac irregularities in the dog during anesthesia with trichloroethylene, cyclopropane, ethyl chloride and chloroform, 14: 153
- MORRIS, L. E., SCHILLING, E. A., and FREDERICKSON, E. L., The use of Tensilon with curare and nitrous oxide anesthesia, 14: 117
- MORRIS, L. E., see FELDMAN, S. A., jt. auth.
- MORRIS, L. E., see HOUSEHOLDER, J. R., jt. auth.
- MORRIS, L. E., see ICHIYANAGI, K., jt. auth.
- MORRIS, L. E., see PARSLÖE, C. P., jt. auth.
- MORRIS, L. E., see PITTINGER, C. B., jt. auth.
- MORRISON, R. L., KOPPANYI, T., and TUOHY, E. B., Spinal anesthetic effects of barbiturates: preliminary report, 12: 315
- MORSE, R. A., see HUGGINS, R. A., jt. auth.
- MORTON, M. V., see GORDON, R. A., jt. auth.
- Morton, William Thomas Green  
ride through Central Park (edit.), 18: 785 (c.c.), 19: 292
- Motor Movements: see Muscles
- MOUSEL, L. H., Preoperative preparation and choice of anesthetic agents, 11: 495
- MOUSEL, L. H., Regional anesthesia for operations about the head and neck, 2: 61
- MOUSEL, L. H., and COAKLEY, C. S., Anesthetic management of the patient with thyroid disease, 10: 444

- MOUSEL, L. H., and ESSEX, H. E., Experimental study of the effects of respiratory stimulants in animals under Pentothal sodium anesthesia, **2**: 272
- MOUSEL, L. H., and LUNDY, J. S., The role of the liver and kidneys from the standpoint of the anesthetist, **1**: 40
- MOUSEL, L. H., STUBBS, D., and KREISELMAN, J., Anesthetic complications and their management, **1**: 69
- MOUSEL, L. H., WEISS, W. A., and GILLIOM, L. A., Clinical study of carbon dioxide absorption during anesthesia, **7**: 375
- MOUSEL, L. H., see ROSENOW, E. C., jt. auth.
- Mouth
- oral mucous membrane, effect of Efocaine on (Piro & others), **15**: 397
- reflexes, effect on respiration (Reid & Bruce), **4**: 345
- Mouth Gag: see under Apparatus
- MOYER, J. H., McCONN, R., MILNER, A., and SMITH, C. P., Renal hemodynamics in hypertensive patients following administration of Pendiomide, **17**: 9
- MOYER, J. H., McCONN, R., and MORRIS, G., Effect of controlled hypotension with Pendiomid on renal hemodynamics and water and electrolyte excretion—a comparison with hexamethonium and Arfonad and the effect of norepinephrine on these responses, **16**: 355
- MOYER, J. H., see HUGGINS, R. A., jt. auth.
- MOYER, J. H., see MORRIS, G. C., jt. auth.
- MOYERS, J., A nomenclature for methods of inhalation anesthesia, **14**: 609
- MOYER, J., and PITTINGER, C. B., Changes in blood pressure and pulse rate during Fluothane anesthesia: a comparative clinical study, **20**: 605
- Mucous Membranes
- irritative action of volatile anesthetics on, the relationship between potency and chemical constitution (Krantz & others), **5**: 291
- quantitative measurement of mucosal irritation of volatile anesthetics (Lu & others), **14**: 143
- Multiple sclerosis, treatment, intravenous procaine (Graubard and Peterson), **10**: 175
- MUÑOZ, R., see BOONER, J. D., jt. auth.
- MURPHY, A., see BUNKER, J. P., jt. auth.
- MURPHY, F. D., Postgraduate education with reference to anesthesia, **12**: 50
- MURPHY, F. J., see BAILEY, P. J., jt. auth.
- MURPHY, F. J., see FARQUHARSON, H., jt. auth.
- MURPHY, J. D., and MARTIN, S. J., Malpractice as related to the anesthesiologist, **20**: 99
- MURPHY, J. D., and SWORD, B. C., Adaption of the Albee-Comper table to the prone position for thoracic surgery, **9**: 58
- MURPHY, J. T., see HALLOWELL, P., jt. auth.
- MURPHY, O., CRUMPTON, C. W., and MEEK, W. J., The effect of blood pressure rise on the production of cyclopropane-epinephrine induced cardiac irregularities, **10**: 416
- MURPHY, Q., O'BRIEN, G. S., and MEEK, W. J., The effects of aliphatic sympathomimetic amines on cardiac automatic tissue in dogs under cyclopropane, **11**: 437
- MURPHY, Q., see ALLEN, C. R., jt. auth.
- MURPHY, Q., see STUTZMAN, J. W., jt. auth.
- MURTAGH, F., see KRUMPERMAN, L., jt. auth.
- Muscles
- abnormal motor movements during divinyl ether anesthesia (DiGiovanni & Dripps), **17**: 353
- basic problems of drug action on myoneural junction (Nachmansohn), **20**: 421
- block (neuromuscular)
- in man (Churchill-Davidson), **17**: 88
- urine secretion during diffusion respiration after apnea from (Irwin & others), **18**: 594
- blocking
- activity of Mylaxen, influence of anesthesia on (Cavallito & others), **17**: 547
- agents
- compatibility of neuromuscular blocking agents with barbiturates (c.c.), **14**: 92
- potency of, special reference to succinylcholine (Hoppe), **16**: 91
- dystrophy: see Myotonia Dystrophica
- electromyography of diaphragm (abs.), **20**: 124
- extraocular, action of succinylcholine on (Dillon & others), **18**: 44
- human skeletal, metabolism, effect of ether anesthesia on (abs.), **20**: 128
- nerve complex (intercostal), action of antibiotics on (Sabawala & Dillon), **20**: 659
- neuromuscular
- activity of Imbretil (Foldes & others), **20**: 767
- effects of ether, cyclopropane, chloroform and Fluothane (Watland & others), **18**: 883
- and ganglionic blocking action of thiamine and derivatives (DiPalma & Hitchcock), **19**: 762
- oculo-cardiac reflex in eye muscle surgery (Bosomworth & others), **19**: 7
- positive inotropic action of cyclopropane on intercostal muscle *in vitro*, and modification by *d*-tubocurarine (Sabawala & Dillon), **19**: 473
- preparations, action of volatile anesthetics on (Sabawala & Dillon), **19**: 587
- skeletal, controlled paralysis of (Wnuck & others), **14**: 367
- smooth (aneural), action of succinylcholine on motility of, and relationship to acetylcholine (Ferguson), **18**: 413
- thiopental concentration of, in (Bollman & others), **11**: 1
- Muscle Relaxants: See also under Nerves; Muscles; under names of specific agents; Curare
- Hexabiscarbacholine; Succinylcholine
- agent, WIN 2747, clinical evaluation (Gordon), **14**: 73
- and anesthesia, effect of on elastic properties of human thorax (abs.), **20**: 134
- cardio-circulatory effects of, during cyclopropane anesthesia (abs.), **20**: 131

- cardiovascular studies on (abs.), 18: 161  
 chemistry (de Beer), 20: 416  
 chlorpromazine, properties of (Kotkin & others), 17: 494  
 clinical practice with (Cullen), 20: 530  
 combined with thiopental sodium, electrocardiographic studies during endotracheal intubation, effects during anesthesia with (Rosner & others), 14: 591  
 compliance of lungs and thorax in dogs under the influence of (Safar & Bachman), 17: 334  
 depolarizing and intraocular pressure *in vivo* (Dillon & others), 18: 439  
 development and use in United Kingdom (Gray & Wilson), 20: 519  
 distribution, desiruction and elimination (Kallow), 20: 505  
 effect on evoked central nervous system responses in cat (abs.), 19: 98  
 effects  
   on lungs and circulation (abs.), 20: 122  
   other than muscular relaxation (Paton), 20: 453  
 factors which alter effects of (Foldes), 20: 464  
 future of (Papper), 20: 546  
 historical background, early use and development of (McIntyre), 20: 409  
 inhibitory effect of neuromuscular blocking agents and their antagonists on human cholinesterases (abs.), 18: 163  
*Kurare* (c.c.), 20: 725  
 mechanism of action of, and their antagonists (Taylor), 20: 439  
 new synthetic (RO 2-4557), in clinical anesthesia (abs.), 18: 155  
 postoperative disturbances in ventilation following (abs.), 20: 121  
 role in anesthesia deaths (Dripps), 20: 542  
 symposium, introduction (Eckenhoff), 20: 407  
 MUSHIN, W. W., The teaching of anaesthesia, 19: 131  
 Music, as a supplement in nitrous oxide-oxygen anesthesia (Cherry & Pallin), 9: 391  
 MUSSER, R. D., PARK, C. S., and KRANTZ, J. C., Anesthesia. LVI. Stability or trifluoroethylvinyl and ethylvinyl ethers in the animal body, 18: 480  
 MUSSER, R. D., see KRANTZ, J. C., JR., *jt. auth.*  
 Myanesin  
   muscle relaxation from (Griffith & others), 10: 61  
   pharmacology of (Wyngaarden & others), 10: 529  
   with Pentothal (Paulson & others), 10: 393  
   treatment of tetanus (c.c.), 12: 120  
 Myasthenia Gravis  
   anesthesia in patient with (Mathews & Derrick), 18: 443  
   effect on choice of anesthetic (Mousel), 11: 495  
 Mylaxen: see Hexafluorenum Bromide  
 Myocardium: see also Heart  
   contractility in intact dog, influence of meperidine on (Sugioka & others), 18: 623  
   depression of, and total body oxygen consumption by Fluothane (abs.), 19: 113;  
   (Severinghaus & Cullen), 19: 165  
   irritability, pharmacodynamic control by mepazine in dogs (Corssen & others), 19: 733  
 Myofascitis, treatment, intravenous procaine (Graubard & Peterson), 10: 175  
 Myoneural Junction: see under Muscles; Nerves  
 Myotonia dystrophica, anesthetic management of patient with (c.c.), 20: 717  
 Mytolon chloride, a new muscle relaxant (Arrowood), 12: 753  
 NACHMANSOHN, D., Basic problems of drug action on the myoneural junction, 20: 421  
 NAGANO, S. M., see ELDER, J. D., *jt. auth.*  
 Nalline: see N-Allylnormorphine  
 Narcology (corr.), 11: 637  
 Narcosis: see also Anesthesia  
   theories of (review) (Pittinger & Keasling), 20: 204  
 Narcotic Antagonists: see also under names of specific drugs and agents  
   and narcotics, combined used of for premedication (abs.), 20: 122  
 Narcotics: see also specific drugs, e.g., morphine, meperidine, etc.  
   antagonist (new), levallorphan tartrate, comparative effects of, on respiratory responses to carbon dioxide during narcotic depression in anesthetized man (Landmesser & others), 16: 520  
   mechanism of action, cell respiration, a background for the study of (Field), 8: 127  
   and narcotic antagonists, combined use for premedication (abs.), 20: 122  
   effect of  
     respiratory center (abs.), 19: 95  
     upon respiration and respiratory response to hypercapnia (Eckenhoff & Helrich), 19: 240  
     influence of  
       on respiratory response to thiopental (Helrich & others), 17: 459  
       upon experimental results (edit.), 17: 616  
   phenazocine, new benzomorphan analgesic (Eckenhoff), 20: 355  
   respiratory effects of narcotic analgetics and their antagonists (abs.), 18: 178  
   nausea and vomiting, postoperative, narcotics as a factor in (Steele), 4: 430  
 NARODICK, B. G., and STEELE, J. D., The use of Demerol in patients sensitive to morphine, 9: 285  
 NATHAN, A., and SCIALLI, V. A., Cardiopulmonary function—range of normals, 16: 816  
 NATHANSON, M., see ORKIN, L. R., *jt. auth.*  
 National Fire Protection Association  
   (miscellany), 18: 150  
   Pamphlet No. 56, notice, 19: 670  
   report of committee on hospital operating rooms (miscellany), 18: 515  
 Nausea: see also Vomiting  
   during spinal anesthesia, effect of preanesthetic drugs (Sellman), 2: 333

- effect of  
 Dramamine (corr.), 10: 767  
 pyridoxine (Kernis & Stodsky), 11: 212  
 postanesthetic cyclizine for (Bonica & others), 19: 532  
 postoperative  
   control with Dramamine (Hume & Wilner), 13: 302  
   control with parenteral Dramamine (Moore & others), 13: 354  
   evaluation of Marezine and Bonamine in lowering incidence of (Tillman & others), 17: 112  
   relation to blood oxygen (Latterell & Lundy), 10: 677  
   and vomiting during spinal anesthesia (Crocker & Vandam), 20: 587  
 NEALON, T. F., CHASE, H. F., and GIBBON, J. H., Factors influencing carbon dioxide absorption during anesthesia, 19: 75  
 Nebulizer, for liquid anesthetics (c.c.), 18: 131  
 Neck  
   regional anesthesia for operations about the head and neck (Mousel), 2: 61  
   regional anesthesia for operations about the neck and upper extremity (Adams), 2: 515  
 Needles: see also under Apparatus  
   blunt-tip, for epidural anesthesia (c.c.), 19: 556  
   fine lumbar puncture (c.c.), 17: 504  
   for intrathecal puncture (c.c.), 18: 336  
   intravenous anesthesia (Gordh), 6: 258  
   points, hypodermic, study (Franz & Tovell), 17: 724  
   size, effect on headache (Krueger & others), 12: 477  
 spinal  
   introducer (modified) for 26 gauge (c.c.), 16: 470  
   malleable cone-tip, for fractional spinal anesthesia (Cappe & Deutsch), 14: 398  
   new, for spinal anesthesia (Haraldson), 12: 321  
   small bore, use of, technique to minimize occurrence of headache after lumbar puncture (Wetchler & Brace), 16: 270  
   storage rack for nerve block clinic (c.c.), 16: 1028  
   trick in placing caudal (c.c.), 17: 620  
 Tuohy  
   modification of (c.c.), 12: 515  
   modified (c.c.), 20: 712  
 NEELEY, A. H., see SHUKYS, J. G., jt. auth.  
 NEFF, W. B., and LIND, S., Ether anesthesia with improvised apparatus for intrathoracic operations under emergency circumstances, 6: 337  
 NEFF, W. B., PHILLIPS, W., and GUNN, G., Anesthesia for pneumonectomy in man, 3: 314  
 NEFF, W. B., see FENDER, F. A., jt. auth.  
 NEFF, W. B., see MAYER, E. C., jt. auth.  
 Negative pressure, produced by ciliary action and its relation to atelectasis (Hilding), 5: 225  
 NELSON, T. G., PEDIGO, H. K., and BOWERS, W. F., Use of tracheotomy in association with artificial and controlled respiration, 18: 77  
 Nembutal: see Pentobarbital Sodium  
 Neostigmine (Prostigmine)  
   curare antagonism (Burke & others), 9: 251  
   intravenous administration of, and atropine, electrocardiographic effects of, during cyclopropane anesthesia (Jacobson & Adelman), 15: 407  
 Neo-Synephrine: see Phenylephrine  
 Neraval Sodium: see Methitural Sodium  
 Nerves: see also Nervous System  
   block, by mephenesin (Feinstein & Libet), 14: 333  
   block, therapeutic, anesthesiologist and; with emphasis on problems of pain relief (Vandam & Eckenhoff), 15: 89  
   blocks, management of pain of malignant disease with (Bonica), 15: 134; 280  
   a comparison of the actions on nerve fibers of certain anesthetic mixtures and substances in oil (Duncan & Jarvis), 4: 465  
   histopathological effects of prolonged exposure of, to local anesthetics (abs.), 20: 134  
   injuries following surgery (Dhuner), 11: 289  
   median, neuropathy following anesthesia (c.c.), 17: 828  
   neurophysiology of pain, recent advances (Haugen), 16: 490  
   peripheral, neuropharmacology of procaine (Peterson), 16: 678  
   "pretracheal" nerve tract (c.c.), 20: 221  
 Nervous System: see also Nerves  
   autonomic, blocking agents, evaluation of protective action of, in peripheral circulatory stress (Hershey & others), 19: 589  
   associated movements in anesthesia, winking-jaw phenomenon (Bortoluzzi), 20: 585  
   central  
     and anesthesia (Sonnenschein), 15: 19  
     effect of anesthetic (gaseous) agents on evoked responses from (abs.), 18: 161; (Davis & others), 18: 734  
     evoked responses, effect of anesthetic agents on (Davis & others), 19: 441  
     neuropharmacology of procaine (Peterson), 16: 976  
     central, responses in cat, effect of volatile agents and muscle relaxants on (abs.), 19: 98  
     *in vitro* studies of influence on ATP dephosphorylation by central depressants and stimulants (Lu & Krantz), 14: 348  
   of children (Leigh and Belton), 11: 592  
   effects of nitrous oxide on responses evoked in brain stem by tooth stimulation (Haugen & Melzack), 18: 183  
   neurological effects following intrathecal administration of vasoconstrictor drugs in rhesus monkeys (Wu & others), 15: 71  
   sympathetic (reflex) dystrophy; criteria for diagnosis and treatment (Betcher & Casten), 16: 994



- sympatho-adrenal responses to general anesthesia and their relation to hemodynamics (Price & others), 20: 563
- NESBIT, R. M., and BUTLER, W. J., An evaluation of Monocaine formate in the production of low spinal anesthesia, 9: 430
- NEUMANN, C., see FOSTER, A. D., jt. auth.
- Neuritides, treatment, intravenous procaine (Graubard and Peterson), 10: 175
- Neuropathy: see under Nerves and Nervous system
- Neurophysiology: see under Nerves and Nervous system
- Neurosurgery
- anesthesia for (Teplinsky and others), 10: 82
  - craniopagus, separation of (c.c.), 18: 908
  - craniotomy, succinylcholine drip during (Hall & others), 20: 65
  - circulatory changes during anesthesia for (Howland & Papper), 13:
- NEVES, E., see SAKLAD, M., jt. auth.
- NEWMAN, W., see ARCURI, R. A., jt. auth.
- NEWMAN, W., see BURSTEIN, C. L., jt. auth.
- NEWMAN, W., see DANCE, C. L., jt. auth.
- NEWMAN, W., see PETERS, N. S., jt. auth.
- NEWMAN, W., see ROSNER, S., jt. auth.
- NGAI, S. H., GREEN, H. O., KNOX, J. R., and SLOCUM, H. C., Evaluation of inhalers for trichloroethylene, chloroform and Fluothane, 19: 488; (abs.) 19: 109
- NGAI, S. H., HANKS, E. C., FINK, B. R., HOLADAY, D. A., and PAPPER, E. M., Quantitative study of the action of Imbretil and its modification in man, 20: 653
- NGAI, S. H., see DETERLING, R. A., jt. auth.
- NGAI, S. H., see DRIPPS, R. D., jt. auth.
- NGAI, S. H., see GREEN, H. D., jt. auth.
- NGAI, S. H., see FINK, B. R., jt. auth.
- NICHOLAS, P. S., see GERLICH, N. A., jt. auth.
- NICHOLSON, M. J., Hemolytic transfusion reactions, 9: 345
- NICHOLSON, M. J., SARNOFF, S. J., and CREHAN, J. P., The intravenous use of a thiophanium derivative (Arfonad — R02-2222) for the production of flexible and rapidly reversible hypotension during surgery, 14: 215
- NICHOLSON, M. J., see COLLINS, C. C., jt. auth.
- NICKERSON, M., and BROWN, H. O., Protection by dibenamine against "spontaneous" arrhythmias occurring during cyclopropane anesthesia, 12: 216
- NICKERSON, M., and SMITH, S. M., Protection against cyclopropane-epinephrine arrhythmias by dibenamine and other agents, 10: 562
- Nikethamide, comparison with newer analeptics (abs.), 19: 115
- Nisentil: see Alphaprodine Hydrochloride
- Nitrogen
- dinitrogenation with inhalation anesthetic systems (Hamilton & Eastwood), 16: 861
  - determination of, in mixtures of oxygen, nitrous oxide, and ether (Faulconer & Ridley), 11: 276
  - elimination of, using semiclosed inhalers (Miles & others), 17: 213
  - measurement in anesthetic mixtures (Ridley & others), 12: 276
  - the treatment of untoward effects from (Apgar), 3: 265
- Nitroglycerine, effect on coronary circulation (Eckenhoff), 11: 168
- Nitrous Oxide
- adaptation to "to and fro" technic (Lyons), 2: 321
  - amnesia-analgesia, physiological respirator producing (Frumin), 18: 290
  - analgesia, electrocardiographic studies of tracheo-cardiac reflex during (abs.), 19: 103
- anesthesia
- hazard of anoxia during (Barach & Rovenstine), 6: 449
  - oxygen (Clemment), 7: 616
  - oxygen, polarographic method for arterial oxygen tension studies during (abs.), 20: 126
  - oxygen, plus Pentothal, and Pentothal, effect of, on blood sugar levels (Sessoms & others), 16: 235
  - oxygen-thiopental cardiac output by ballistocardiograph during (Pollock & others), 16: 970
  - recovery from thiopental and methitural-nitrous oxide anesthesia for standard short procedure (Gale), 18: 573
  - recovery time following Demerol or Pentothal supplementation of (Widdowson & others), 16: 747
- supplementation
- comparison of Demerol, morphine and a new analgesic drug (15431) (Wilkins & others), 12: 145
  - with curare (c.c.), 5: 617
  - with curare for lengthy operations (Harroun & others), 7: 24
  - by Demerol, morphine and #15431 (Brotman & others), 11: 527
  - with Demerol (Brotman & Cullen), 10: 696
  - music with (Cherry & Pallin), 9: 391
  - with opiates and new opiate antagonist (Hamilton & Cullen), 16: 22
  - with Pentothal (c.c.), 12: 661
  - and thiopental sodium, hemodynamic studies during (Fieldman & others), 16: 473
  - use of Tensilon with curare and (Morris & others), 14: 117
- asphyxia during, effect of premedication (Allen & others), 10: 164
- centennial (Waters), 5: 551
- collision broadening effect upon infrared analysis of carbon dioxide during anesthesia (Bergman & others), 19: 19
- concentration of in anesthetic mixtures (Ridley & others), 12: 276
- with cyclopropane, and curare, a review of 200 cases (Holaday), 7: 426
- dangers (corr.), 7: 571

determination

- analysis of blood gases with mass spectrometer (Hattox & others), 14: 584
- apparatus for continuous (Loomis & Beyer), 12: 173
- in mixtures of oxygen, ether and nitrogen (Faulconer & Ridley), 11: 265
- determination (Strayer), 11: 601

effect on

- arterial oxygen tension (McQuiston & others), 4: 145
- electroencephalogram (Faulconer), 13: 361
- liver (Hugill), 11: 567
- myocardium (Fisher & others), 12: 19
- responses evoked in brain stem by tooth stimulation (Haugen & Melzack), 18: 183
- respiration and respiratory response to hypercapnia (Eckenhoff & Helrich), 19: 240

- electroencephalographic manifestations of amnesia and analgesia produced by (abs.), 18: 172

- electrocardiographic studies during (Burstein & others), 12: 416

- hypalgesia in trained subjects (Haugen & others), 20: 321

- induction, arterial oxygen saturation and respiratory minute volume during (abs.), 19: 94

- mental disturbances following anesthesia with (Batten & Courville), 1: 261

- metabolic activity of brain tissue, influence of, on (Hosein & others), 16: 708

- oxygen (tension) inhaled, blood oxygenation as affected by tidal volume and, at one mile altitude (Weaver & Virtue), 16: 57

- oxygen—trichlorethylene for office dental anesthesia (Bergner & others), 15: 696

- partial pressures of, effect on depth of anesthesia and the electroencephalogram (Faulconer & others), 10: 601

- studies with unipolar electroencephalography (Pearcy & others), 18: 310

thiopental

- for thoracoplasty (Greif & others), 9: 637
- decamethonium in abdominal surgery (Foldes & Machaj), 12: 366

- oxygen, effect on arterial blood gas (Barton & others), 7: 505

- succinylcholine, comparison with ether anesthesia for upper abdominal surgery (Bunker & others), 20: 745

- technic of administration (McCarthy), 11: 485

- trifluoroethylvinyl ether anesthesia, electroencephalographic patterns during (Brechner & Dornette), 18: 321

- thoracoplasty, anesthesia for (Cullen & others), 2: 310

- NOLTE, E. C., see TAYLOR, I. B., jt. auth.

- NOLTENSMAYER, M. H., see MORRIS, L. E., jt. auth.

- Nomenclature: see Terminology

- Nomogram for chloroform (c.c.), 20: 378

- Nonbreathing Valve: see Apparatus

Norepinephrine

- continuous intravenous infusion of, during cyclopropane and ether anesthesia in dog, cardiovascular effects of (Deterling & others), 15: 11

effect of

- on controlled hypotension with pendiomid, hexamethonium and Arfonad (renal hemodynamics and water electrolyte excretion) (Moyer & others), 16: 355

- thyroid hormones on hemodynamic and metabolic response to (abs.), 18: 156

- in initiation of ventricular arrhythmias by carbon dioxide inhalation during cyclopropane anesthesia (Price & others), 19: 619

- treatment of massive obstetric hemorrhage (Cappe & Palin), 12: 728

- use of norepinephrine in various states of shock (Eckenhoff & Dripps), 15: 681

- NORMAN, L. R., see HARKEN, D. E., jt. auth.

- NORTHUP, D. W., see VAN LIERE, E. S., jt. auth.

- NISHIMURA, N., KITAHARA, T., and KUSAKABE, T., The spread of lidocaine and I-131 solution in the epidural space, 20: 785

- NORRIS, F. H., and HALL, K. D., Serial micro-hematocrit determinations in anesthesia, 20: 799

- NORRIS, F. H., see HALL, K. D., jt. auth.

- NORTON, S., see WNUCK, A. L., jt. auth.

- Noscapine, effect on respiratory response to carbon dioxide (Bellville & others), 19: 545

- Novatropine, the control of gastrointestinal tone and motility with (Martin & Batterman), 1: 300

- NOWILL, W. K., STEPHEN, C. R., and MARGOLIS, G., The chronic toxicity of trichloroethylene: a study, 15: 462

- NOWILL, W. K., see BORDERS, R. W., jt. auth.

- NOWILL, W. K., see BOURGEOIS-GAVARDIN, M., jt. auth.

- NOWILL, W. K., see HALL, K. D., jt. auth.

- NOWILL, W. K., see MARTIN, R. C., jt. auth.

- NOWILL, W. K., see STEPHEN, C. R., jt. auth.

- Nupercaine: see Dibucaine

- O'BRIEN, G. S., see MURPHY, Q., jt. auth.

Obstetrics

- amnesic regimens, effect of, on blood gas during parturition (Brown & Volpitto), 11: 651

analgesia

- and anesthesia in (Hellijas & others), 8: 113
- lumbar sympathetic nerve block (abs.), 19: 98
- analgesics, effect of, on labor pains (Javert & Hardy), 12: 189

anesthesia

- caesarian section
- spinal anesthesia for (Torric), 6: 154

caudal

- analgesia for vaginal delivery, complications (Bush), 20: 186
- continuous with Pontocaine (Brown & others), 7: 355

- procaine-Pontocaine caudal anesthesia, single injection technic (Crawford & Chester), 10: 473
- hypotension during (Kennedy & other 20: 153
- for obstetrics (edit.), 6: 410
- for obstetrics (Greene & Goldsmith), 11: 110
- practical aspects (Hershenson), 9: 73
- regional trends in (Hellijas & Tovell), 9: 400
- saddle block
- effect of, on uterine motility (Howard & others), 10: 151
- saddle block (Andros & others), 10: 517
- service, organization of (Hingson & Hellman), 12: 745
- spinal
- dangers of spinal anesthesia in obstetrics (Greenhill), 11: 283
- trichlorethylene in (Gordon and Morton), 12: 680
- for twin delivery (Little & Friedman), 19: 515
- massive hemorrhage in, treatment of (Cappe & Pallin), 12: 728
- management of eclampsia (Lund), 12: 693
- problems in toxemia of pregnancy (McNeal), 11: 96
- O'DELL, T. B., see ARROWOOD, J. G., jt. auth.
- O'DONNELL, J. A., and McDERMOTT, T. F., Anesthetic problems of surgical correction of aortic insufficiency, 16: 343
- OECH, S. R., see DRIPPS, R. D., jt. auth.
- Oenethyl
- effect on duration of spinal anesthesia (Bray & others), 10: 40
- as a vasopressor for spinal anesthesia (Roman-Vega & Adriani), 7: 62
- O'HOLLAREN, P., see LEMERE, F., jt. auth.
- OLEKSYSHYN, N., see GREISHEIMER, E. M., jt. auth.
- O'MALLEY, W. E., TRUITT, E. B., HULME, N. A., and KRANTZ, J. C., Anesthesia: LII. Pharmacologic study of certain ethinyl barbiturates, 17: 585
- O'NEAL, K. C., see ALLEN, C. R., jt. auth.
- Operating room, planning of (Wheeler & Casse), 8: 567
- Operation: see Surgery; names of specific organs and procedures
- Opiates: see narcotics and specific drugs
- OPPENHEIMER, M. J., see GREISHEIMER, E. M., jt. auth.
- OPPENHEIMER, M. J., see LYNCH, P. R., jt. auth.
- OPPENHEIMER, M. J., see LONG, J. H., jt. auth.
- ORKIN, L. R., BERGMAN, P. S., and NATHANSON, M., Effect of atropine, scopolamine and meperidine on man, 17: 30
- ORKIN, L. R., EGGE, R. K., and ROVENSTINE, E. A., Effect of Nisentil, meperidine and morphine on respiration in man, 16: 699
- ORKIN, L. R., MORALES, G. A., FUJITA, M., and GABUYA, R. L., Potency of intravenous barbiturates in man (abs.), 19: 110
- ORKIN, L. R., and ROVENSTINE, R. A., Hexylcaine (Cyclaine): usefulness in regional and topical anesthesia — preliminary report, 13: 465
- ORKIN, L. R., see CLARK, R. E., jt. auth.
- ORKIN, L. R., see MARX, G. F., jt. auth.
- Oropharyngeal Airway
- roentgenographic studies of (abs.), 18: 162; (Fink), 18: 711
- ORTH, O. S., SLOCUM, H. C., STUTZMAN, J. W., and MEEK, W. J., Studies of Vinethene as an anesthetic agent, 1: 246
- ORTH, O. S., WANGEMAN, C. P., and MEEK, W. J., Failure of various barbiturates to prevent cyclopropane-epinephrine ventricular tachycardia in the dog, 2: 628
- ORTH, O. S., see ALLEN, C. R., jt. auth.
- ORTH, O. S., see HAWK, M. H., jt. auth.
- ORTH, O. S., see HEGE, F. B., jt. auth.
- ORTH, O. S., see KREUL, W., jt. auth.
- ORTH, O. S., see LEE, W. V., jt. auth.
- ORTH, O. S., see PARSLÖE, C. P., jt. auth.
- ORTH, O. S., see SIEBECKER, K. L., jt. auth.
- ORTH, O. S., see WATERS, R. M., jt. auth.
- Orthopedic surgery, anesthesia for (case report), 9: 656
- OSBORNE, D. E., see DENSTEDT, O. F., jt. auth.
- OSBORN, J. E., see RIDLEY, R. W., jt. auth.
- OSGOOD, P. F., see BREWSTER, W. R., jt. auth.
- OSHLAG, A. M., see BATTERMAN, R. C., jt. auth.
- OSHSNER, A., Anesthesia of the sympathetic nerves (edit.), 4: 301
- Osteoarthritis, treatment, intravenous procaine (Graubard & Peterson), 10: 175
- Osteomyelitis, effect on choice of anesthesia (Mousel), 11: 495
- OSTER, R. H., CARR, C. J., and KRANTZ, J. C., Anesthesia. XXVII. Narcosis with vinyl chloride, 8: 359
- Otolaryngology
- fenestration
- anesthesia for (Carton), 12: 465
- anesthesia for (Meals), 9: 644
- procedures for (Stubensey), 14: 303
- OTTOLENGHI, R., see ANTONETTI, J., jt. auth.
- OTTOSEN, P., see CRAWFORD, O. B., jt. auth.
- OWENS, G., DAWSON, R. E., and SCOTT, H. W., Experimental production of "ether convulsions," 18: 583
- Oxford vaporizer, for experimental use (Foster & others), 6: 181
- Oxidation
- phosphorylation (oxidative) in brain, effect of ethyl ether on (Hulme & Krantz), 16: 627
- phosphorylation (oxidative) uncoupling of, and anesthetic potency (Hulme & Krantz), 17: 43
- Oximeter
- ear, as circulatory monitor (Schotz & others), 19: 386
- modified Millikan, in automatic anesthesia (Soltero & others), 12: 542
- a technical aid for the anesthesiologist (Stephen & others), 12: 541
- Oxygen
- ad absurdum* (c.c.), 18: 131
- analysis, apparatus for (c.c.), 7: 82

- in anesthetic mixtures, measurement of (Ridley & others), 12: 276
- apneic oxygenation (Frumin & others), 20: 789
- blood
- arterial
    - concentration of during surgical anesthesia (Ridley & others), 12: 276
  - desaturation
    - during apnea (Weitzner & others), 20: 624
    - in severely burned patients: significance to anesthesiologist (abs.), 20: 133
  - saturation and pulmonary ventilation during ether-air anesthesia (Ikezono & others), 20: 597
  - content, during spinal anesthesia (Latterell & Lundy), 10: 677
  - during labor, effect of amnesic regimens on (Brown & Volpito), 11: 651
  - effect of rectal Pentothal on, in children (Marbury), 11: 589
  - levels with carbon dioxide controlled artificial respirator (Frumin & others), 20: 313
- coronary circulation, effect on (Eckenhoff), 11: 168
- convulsions, drug induced, effect on (Cotten & Walton), 12: 491
- cerebral, consumption during Pentothal anesthesia (Wechsler & others), 12: 308
- deficiency
- anoxia (diffusion) (Fink), 16: 511
  - and carbon dioxide excess during ether and barbiturate anesthesia in dog, respiratory effects (Gordh & Åström), 16: 245
  - cardiac arrhythmias: effect of vagal stimulation and hypoxia (Jacoby & others), 16: 1004
  - role of diffusion anoxia in production of arrhythmias following inhalation of carbon dioxide (abs.), 18: 158
  - signs of, variations in, during anesthesia (Allen), 8: 601
- depression of total body consumption and myocardium by Fluothane (abs.), 19: 113; (Severinghaus & Cullen), 19: 165
- determination
- in blood, analysis of gases in blood with mass spectrometer, total extraction of gases for (Patrick & others), 15: 95
  - determination (Strayer), 11: 599
  - in mixtures of ether, nitrous oxide and nitrogen (Faulconer and Ridley), 11: 265
- electrodes for blood carbon dioxide and (abs.), 20: 136
- ethylene anesthesia, three decades of (Livingstone), 16: 224
- intravenously (Cole), 12: 181
- nitrous oxide
- anesthesia, plus Pentothal, and Pentothal, effect of, on blood sugar levels (Sessoms & others), 16: 235
  - Pentothal anesthesia, cardiac output by balistocardiograph during (Pollock & others), 16: 970
  - (tension) inhaled, blood oxygenation as affected by tidal volume and, at one mile altitude (Weaver & Virtue), 16: 57
- parenteral administration of, as hydrogen peroxide (Lorincz & others), 9: 162
- saturation
- arterial and respiratory minute volume, during induction with nitrous oxide (abs.), 19: 94
  - changes in, during bronchoscopies (DeKornfeld & Siebecker), 18: 466
- simple emergency positive pressure technique (c.c.), 16: 294
- tension
- arterial
    - during nitrous oxide (McQuiston & others), 4: 145
    - studies during nitrous oxide-oxygen anesthesia, polarographic method for (abs.), 20: 126
  - during semi-open, air ether anesthesia (Faulconer & Latterell), 10: 247
  - skin, effects of general anesthetics on (Greene & others), 20: 830
  - studies during use of semiclosed inhalers (Swartz & others), 14: 437
- liver function, effect on (Walton & others), 12: 67
- therapy
- alveolar and arterial, content during oropharyngeal therapy (Christensen & others), 7: 399
  - apparatus, inexpensive (c.c.), 8: 642
  - apparatus, new (Bortin), 4: 48
  - certain physiological principles underlying resuscitation and oxygen therapy (Behnke), 2: 245
  - during fever therapy (Cullen & others), 3: 123
  - by means of a device inserted into the nostril (Penefsky & Karp), 13: 390
  - a physiologically controlled oxygen mask apparatus (Barach & Eckmann), 2: 421
  - rationale and hazards of (Ryder & Kehoe), 9: 21
  - and resuscitation (Warnock & Tovell), 1: 187
- Oxygenator Pump
- acute effect of low-flow, on cerebral physiology (abs.), 18: 169
  - anesthesia and supportive care during intracardiac surgery with Gibbon-type pump-oxygenator (Patrick & others), 18: 673
  - anesthetic problems in cardiopulmonary bypass for open heart surgery (Keats & others), 19: 501
  - biochemical changes from low flow pump oxygenator during cardio-pulmonary bypass (abs.), 19: 107
  - blood flow, venous blood oxygen saturation, blood pressure and peripheral resistance during total body perfusion (Moffitt & others), 20: 18
  - circulation, extracorporeal, in man (edit.), 18: 643

- electroencephalographic changes occurring during cardiopulmonary bypass (Coons & others), **20**: 804
- electroencephalogram in patients undergoing open heart surgery with heart-lung bypass (Davenport & others), **20**: 674
- hypothermia and coronary perfusion for surgery of atrial and valvular defects (Colgan & others), **20**: 811
- surgery, experiences using pump-oxygenator for (Mendelsohn & others), **18**: 223
- Oxytocics, and cyclopropane, effect of, on cardiac rhythm in parturient woman (Ichiyanagi & Morris), **20**: 669
- Oxytocin (Pitocin, Syntocinon)
- compatibility with anesthesia in dogs (Feldman & others), **19**: 787
- during anesthesia (Parsloe & others), **11**: 76
- OYAMA, T., Effects of anesthesia on thyroid function of rats, **18**: 719
- OYAMA, T., see BENDIXIN, H. H., jt. auth.
- Pacatal: see Mepazine
- Pads: see under Apparatus
- PAGE, W. G., see CRANDELL, D. L., jt. auth.
- Pain
- clinic, experience with (Ruben), **12**: 601
- concept of management, poem (c.c.), **17**: 502
- effect of
- analgetics on radiant heat thresholds (Keasling & Gross), **17**: 809
- differential spinal block (Arrowood & Samoff), **9**: 614
- epinephrine (Gross & others), **9**: 459
- intravenous procaine (Graubard & Peterson), **10**: 175
- intractable
- chemical rhizotomy versus cordotomy for (abs.), **19**: 102
- role of anesthesiologist in (Bonica), **16**: 854
- intractable (Bates & Judovich), **3**: 663
- treatment with intrathecal ammonium salts (Judovich & others), **5**: 341
- intravenous procaine as an analgesic and therapeutic procedure in painful neuromusculoskeletal disorders (Marton & others), **10**: 629
- laboratory investigation (Haugen), **14**: 456
- management of, malignant disease with nerve blocks (Bonica), **15**: 134; 280
- modifying factors (Beecher), **12**: 635
- neurophysiology of, recent advances (Haugen), **16**: 490
- physiology of (Gerard), **12**: 1
- postoperative (edit.), **9**: 311
- postoperative, relief of with intercostal block (Belinkoff), **5**: 500
- referred cardiac, relation of subcutaneous focal sensitivity to (Kennard & Haugen), **16**: 297
- relief
- anesthesiologist and therapeutic nerve blocks (Vandam & Eckenhoff), **15**: 89
- differential block, method of (Dogliotti & Ciocatto), **16**: 623
- malignant disease, trichloroethylene for (c.c.), **17**: 208
- morphine solution containing sodium bisulfite, effectiveness of (Keats & Beecher), **14**: 140; (corr.) **15**: 108
- phenazocine, new benzomorphan narcotic analgesic (Eckenhoff), **20**: 355
- postoperative, without respiratory depression (Cullen & Santos), **16**: 674
- Pyribenzamine, evaluation of effectiveness as analgesic agent in regional anesthesia (Betcher & Tang), **16**: 214
- spinal analgesia with Lucaine, critical appraisal (Green & others), **17**: 165
- postoperative, Myanesin in (Selvin), **15**: 174
- stellate ganglion block for (De Backer), **20**: 618
- shoulder, nerve block in the treatment of (Milowsky & Rovenstine), **10**: 76
- PALLIN, I. M., Our society in transition: a statement of policy (edit.), **17**: 826
- PALLIN, I. M., Preliminary report on the activities of the Anesthetic Study Committee of the Medical Society of the County of Kings, New York, **12**: 583
- PALLIN, I. M., and GOLDMAN, M., Fatal massive pulmonary collapse during spinal anesthesia, **10**: 325
- PALLIN, I. M., see CAPPE, B. E., jt. auth.
- PALLIN, I. M., see CHERRY, H., jt. auth.
- PALLIN, I. M., see KOTKIN, S., jt. auth.
- PALLIN, I. M., see LEAR, E., jt. auth.
- PALLIN, I. M., see PETERSON, M. C., jt. auth.
- PAPADOPOULOS, C. N., and KEATS, A. S., The metabolic acidosis of hyperventilation produced by controlled respiration, **20**: 156
- PAPPER, E. M., Bone marrow route for injecting fluids and drugs into the general circulation, **3**: 307
- PAPPER, E. M., The future of muscle relaxants, **20**: 546
- PAPPER, E. M., PETERSON, R. C., BURNS, J. J., BERNSTEIN, E., LIEF, P., and BRODIE, B. B., Physiological disposition of certain N-alkyl thiobarbiturates, **16**: 544
- PAPPER, E. M., and SHEEHAN, W. C., Anesthesiology in military medicine, **4**: 619
- PAPPER, E. M., STERN, M., BUEDING, E., and ROVENSTINE, E. A., Insulin shock during sodium Pentothal and cyclopropane anesthesia, **3**: 660
- PAPPER, E. M., see DETERLING, R. A., jt. auth.
- PAPPER, E. M., see DRIPPS, R. D., jt. auth.
- PAPPER, E. M., see FRUMIN, M. J., jt. auth.
- PAPPER, E. M., see HELDRICH, M., jt. auth.
- PAPPER, E. M., see HOWLAND, W. S., jt. auth.
- PAPPER, E. M., see NGAI, S. H., jt. auth.
- PAPPER, E. M., see ROVENSTINE, E. A., jt. auth.
- PAPPER, E. M., see WEST, J. S., jt. auth.
- PAPPER, E. M., see TOVELL, R. M., jt. auth.
- Pancreatitis, treatment, continuous epidural block (Walker & Pemberton), **14**: 33
- Papaverine, effect on coronary circulation (Eckenhoff), **11**: 168



Paraldehyde

- clinical and experimental studies on (Bodansky & others), 2: 21
- studies on: the median lethal dose, LD<sub>50</sub>, for guinea pigs (Kay and others), 5: 183
- studies on: the median lethal dose, LD<sub>50</sub>, for young and old rats on two dietary regimes (Phillips & others), 5: 287

Paralysis

- agitans, treatment, intravenous procaine (Graubard & Peterson), 10: 175
- hysterical, treatment with thiopental and psychotherapy (Somerfield & Tovell), 2: 59

Paraplegia

- after general anesthesia (case report), 9: 439
- clonus, intrathecal alcohol for (Evangelou & Adriani), 16: 594
- hypertension during anesthesia in patients with spinal cord injuries (Ciliberti & others), 15: 273
- problems in anesthesia for (Rocco & Vandam), 20: 348

Paravertebral Lumbar Block: see under Anesthesia, block; Nerves, block

- PARDEE, I., see GUTTMAN, S. A., jt. auth.
- PARK, C. S., TRUITT, E. B., and KRANTZ, J. C., JR., A comparative study of ethylvinyl and trifluoroethylvinyl ethers, 18: 250
- PARK, C. J., see DEKORNFELD, T. J., jt. auth.
- PARK, C. S., see KRANTZ, J. C., JR., jt. auth.
- PARK, C. S., see MUSSER, R. D., jt. auth.
- PARRY, J. C., see HARRIS, L. C., jt. auth.
- PARRY, T. M., SPENCER, J. N., WHITEHEAD, R. W., and DRAPER, W. B., Studies on diffusion respiration. VIII. Changes in the heart rate, blood pressure and electrocardiogram in dogs during diffusion respiration, 10: 615
- PARRY, T. M., see WHITEHEAD, R. W., jt. auth.
- PARSLOE, C. P., MORRIS, L. E., and ORTH, O. S., The relationship of various anesthetic agents to the action of Pituitrin, Pitressin and Pitocin, 11: 76
- Patent ductus arteriosus, anesthesia for surgical correction of (Adelman), 9: 42
- PATON, W. D. M., The effects of muscle relaxants other than muscular relaxation, 20: 453
- PATRICK, R. T., Extracorporeal circulation in man (edit.), 18: 643

PATRICK, R. T., and FAULCONER, A., Respiratory studies during anesthesia with ether and with pentothal sodium, 13: 252

PATRICK, R. T., SAARI, J. M., POSSATI, S., and FAULCONER, A., Analysis of gases in blood with the mass spectrometer. IV. Total extraction of gases for determination of carbon dioxide and oxygen in blood, 15: 95

PATRICK, R. T., THEYE, R. A., and MOFFITT, E. A., Studies in extracorporeal circulation. V. Anesthesia and supportive care during intracardiac surgery with the Gibbon-type pump-oxygenator, 18: 673

PATRICK, R. T., see MOFFITT, E. A., jt. auth.

PATTERSON, R. L., and HELLER, E. L., Aberrant thymic tissue in the lung—with bronchial

compression and sudden death during anesthesia, 4: 233

PAULSON, J. A., LUNDY, J. S., and ESSEX, H. E., Narcosis with Pentothal sodium alone compared to narcosis with Pentothal sodium combined with (1) curare or (2) myanesin. I. Pentothal sodium-curare narcosis, 10: 387; II. Pentothal sodium-Myanesin narcosis, 10: 393

PAULSON, W. J., see COHEN, E. N., jt. auth.

PAYNE, K. W., see VIRTUE, R. W., jt. auth.

PAYNE, J. N., and RUPP, N. H., Use of hyaluronidase in caudal block anesthesia, 12: 164

PEAL, L., and KARP, M. A., A new surface anesthetic agent: Tronothane, 15: 637

PEARCY, W. C., KNOTT, J. R., and BJURSTROM, R. O., Studies on nitrous oxide, meperidine and levallorphan with unipolar electroencephalography, 18: 310

PEARCY, W. C., KNOTT, J. R., PITTINGER, C. B., and KEASLING, H. H., Electroencephalographic and circulatory effects of chloroform anesthesia in dogs, 18: 88

PEARCY, W. C., and VIRTUE, R. W., The electroencephalogram in hypothermia with circulatory arrest, 20: 341

PECK, A. S., see LANDMESSER, C. M., jt. auth.

"Pecking order," (c.c.), 19: 679

Pediatric Anesthesia: see Anesthesia, pediatric

PEDIGO, H. K., see NELSON, T. G., jt. auth.

PEMBLETON, W. E., see WALKER, T., jt. auth.

PENDER, J. W., Anesthesia for mitral commissurotomy, 14: 77

PENDER, J. W., A combined anesthesia record and statistical card, 7: 606

PENDER, J. W., Endotracheal anesthesia in children: advantages and disadvantages, 15: 495

PENDER, J. W., Rh factor and the anesthesiologist, 13: 608

PENDER, J. W., and ESSEX, H. E., Study of traumatic shock under certain anesthetics, 4: 247

PENDER, J. W., and LUNDY, J. S., Changes of concentration of hemoglobin during anesthesia in man and in animals, 5: 163

PENDER, J. W., see FAULCONER, A., jt. auth.

PENDER, J. W., see PITTINGER, C. B., jt. auth.

Pendiomid

administration of, renal hemodynamics in hypertensive patients following (Moyer & others), 17: 9

controlled hypotension with, on renal hemodynamics and water electrolyte excretion—comparison with hexamethonium and Arfonad and effect of norepinephrine (Moyer & others), 16: 355

PENEFISKY, H. S., and KARP, M., Administration of oxygen by means of a device inserted in the nostril: a preliminary report, 13: 390

Pentamethonium iodide, effect on bleeding (c.c.), 12: 253

- Pentamethylenetetrazol (Metrazol)  
and  $\beta,\beta$ -methylethylglutarimide, relative potency (Boyan & others), 19: 321  
comparison with newer analeptics (abs.), 19: 115  
convulsions, effect of high oxygen atmosphere on (Cotten & Walton), 12: 491
- PENTECOST, P. S., and ADRIANI, J., The use of cervical plexus block in the diagnosis and management of atypical cephalalgia of cervical origin, 16: 726
- Pentobarbital Sodium (Nembutal)  
analgesic and hypnotic action of (Hart & Weaver), 9: 276  
anesthesia  
  effect of, on cardiac response to acetylcholine (Teitelbaum & Gantt), 16: 261  
  respiration in guinea pigs under (Tabari & Becker), 19: 782  
  blood changes in dogs following (Graca & Garst), 18: 461  
  cerebral cortex and medulla oblongata, depression of, sodium succinate in (Larson & others), 16: 239  
  cross tolerance with Delvinal in rats (Carmichael), 9: 532  
  delayed reaction to (Lemere & others), 13: 86  
  depression (Larson & others), 15: 537  
  duration of action of, as influenced by ether anesthesia in rats (abs.), 18: 165  
  effect on  
    hemoglobin and hematocrit values in guinea pigs (Tabari & Becker), 19: 541  
    ether hyperglycemia (Watts), 13: 33  
    signs of asphyxia during nitrous oxide anesthesia (Allen & others), 10: 164  
  effects of and scopolamine on human subjects (Hawk & Wangeman), 4: 238  
  in the fenestration operation (Carron), 12: 465  
  LD<sub>50</sub> for nursed and unnursed newborn rats (Carmichael & Johnson), 12: 340  
  Pentothal combined, in prolonged surgical procedures (Farguharson & Murphy), 11: 489  
  poisoning, resuscitation (Schack & others), 11: 452  
  as preanesthetic medication for regional procedures (Eger & Keasling), 20: 1  
  respiration studies during anesthesia with (Patrick & Faulconer), 13: 252  
  ventricular fibrillation in hypothermic dogs, influence of, on (Riley & others), 17: 277  
  tissue distribution and metabolism in rats, effect of diethyl ether on (Baekeland & Greene), 19: 724
- PENTOCOST, P. S., see BUSH, O. F., jt. auth.
- Pentothal Sodium: see Thiopental Sodium
- PEOPLES, D., see MEYERS, F. H., jt. auth.
- PEOPLES, S. A., see ABREV, B. E., jt. auth.
- Peppermint, with local anesthetics (c.c.), 9: 88
- Peridural Anesthesia: see Anesthesia peridural
- Peripheral Vascular Disease, physiologic problems in (Hoff), 13: 474, 628
- PERKINS, J. F., see EARLE, R. H., jt. auth.
- Perphenazine (Trilafon)  
  control of postoperative vomiting with (Moore & others), 19: 72
- PETERS, M. P., see LIVINGSTONE, H. M., jt. auth.
- PETERS, N. S., NEWMAN, W., and BURSTEIN, C. L., Electrocardiographic studies during endotracheal intubation. IV. Effects during cyclopropane or cyclopropane-ether anesthesia and intravenous procaine amide, 12: 673
- PETERS, R. M., see SUGIOKA, K., jt. auth.
- PETERSON, C. G., Neuropharmacology of procaine. I. Peripheral nervous actions, 16: 678
- PETERSON, C. G., Neuropharmacology of procaine. II. Central nervous actions, 16: 976
- PETERSON, J. R., see WHITEHOUSE, S., jt. auth.
- PETERSON, L. H., see EATHER, K. F., jt. auth.
- PETERSON, M. C., and PALLIN, I. M., Case of massive atelectasis during anesthesia, 3: 79
- PETERSON, M. C., ROBERTAZZI, R., and GOEBEL, J., Complication of diabetes during spinal anesthesia, 4: 625
- PETERSON, M. C., see GRAUBARD, D. J., jt. auth.
- PETERSON, O. S., see ABAJIAN, J., jt. auth.
- PETERSON, R. C., see PAPPER, E. M., jt. auth.
- PETERSON, S. C., see CULLEN, S. C., jt. auth.
- Pethidine: see Meperidine
- PETTINGA, F. L., see STUTZMAN, J. W., jt. auth.
- PFAFF, F., see LAMBIE, R. S., jt. auth.
- PFEIFFER, C. C., and GRANT, C. W., The procaine-sulfonamide antagonism; an evaluation of local anesthetics for use with sulfonamide therapy, 5: 605
- Pharynx, obstruction, fitting anesthetic face mask to relieve (c.c.), 20: 118
- PHELPS, M. L., Role of the alkaloids of the belladonna plants in clinical anesthesia, 3: 71
- PHELPS, M. L., and BURDICK, D. L., Anesthetic management of patients undergoing sympathectomy for hypertension, 4: 361
- Phenazocine (Phenazocine-2'-Hydroxy-5,9-Dimethyl-2-Phenethyl-6,7-Benzomorphan Hydrobromide)  
  new benzomorphan narcotic analgesic (Eckenhoff), 20: 355
- Phenergan: see Promethazine
- Phenglutarimid (Aturbane)  
  effect of, on salivary secretion (Wyant & Haley), 20: 581
- Phenobarbital  
  analgesic and hypnotic action (Hart & Weaver), 9: 276  
  effect on heart (Halbeisen & others), 10: 585  
  spinal anesthetic effects (Morrison & others), 12: 315
- Phenothiazine  
  chlorpromazine (Thorazine)  
    circulatory effects of, before and during cyclopropane anesthesia (Etsten & Li), 18: 203  
    hemodynamic effects (Maxwell & others), 19: 64  
    influence of, on survival time of shocked rats (Virtue & Jones), 17: 601  
    laboratory and clinical investigation (Bourgeois-Gavardin & others), 16: 829

- muscle relaxing properties (Kotkin & others), 17: 494
- protection against experimental shock (Hershey & others), 17: 265
- review and investigation as premedicant in anesthesia (Dobkin & others), 17: 135
- derivatives
- suppression of cyclopropane-epinephrine arrhythmias in dogs by (Winbury & others), 19: 743
  - vasopressor responses in presence of (Eggers & others), 20: 261
  - promethazine (Phenergan) (c.c.), 19: 293
  - effects upon respiration and circulation (Eckenhoff & others), 18: 703
  - new use (c.c.), 19: 402
  - studies, with measurements of concentrations in venous blood, fetal cord blood and cerebrospinal fluid (abs.), 19: 93
- Phenylephrine
- continuous intravenous infusion of, during cyclopropane and ether anesthesia in dog, cardiovascular effects of (Deterling & others), 15: 11
  - dilute solutions for treatment of hypotension following spinal analgesia (Kruel & Orth), 12: 455
  - effect on
    - duration of spinal anesthesia (Bray & others), 10: 40
    - duration of spinal anesthesia (Sergent & Dripps), 10: 260
    - duration of procaine spinal anesthesia (Helrich & others), 12: 595
    - coronary circulation (Eckenhoff), 11: 168
    - use of to prolong spinal anesthesia (Bonica & others), 12: 431
- Pheochromocytoma, surgical and anesthetic management (Thompson & Arrowood), 15: 658
- PHILLIPS, G. W., CARMICHAEL, E. B., and KAY, F. A., Studies on paraldehyde. II. The median lethal dose, LD<sub>50</sub>, of paraldehyde for both young and old rats on two dietary regimes, 5: 287
- PHILLIPS, G. W., see KAY, F. A., jt. auth.
- PHILLIPS, M., see ADRIANI, J., jt. auth.
- PHILLIPS, M., see MAY, G., jt. auth.
- PHILLIPS, O. C., and FRAZIER, T. M., The Baltimore Anesthesia Study Committee organization and preliminary report, 18: 33
- PHILLIPS, W., see NEFF, W., jt. auth.
- Phosphokinase, brain, and anesthetics (Carr & others), 16: 738
- Phosphorylation, oxidative
- in brain, effect of ether on (Hulme & Krantz), 16: 627
  - uncoupling of, and anesthetic potency (Hulme & Krantz), 17: 43
- PICCONI, V. F., see MOORE, D. C., jt. auth.
- Picrotoxin
- barbiturate overdose, role in the treatment of (Richards & Menaker), 3: 37
  - comparison with newer analeptics (abs.), 19: 115
  - effect on thiopental metabolism (Goldbaum & Hubbard), 11: 733
- PIERCE, A. F., see VIRTUE, R. W., jt. auth.
- Piperidine
- anesthetic potency of some new derivatives (Hunt & Fosbinder), 1: 305
  - derivatives, local anesthetic properties of (Rose & others), 9: 373
- Piperocaine (Metycaine)
- cytotoxicity (Cittelson), 10: 202
  - dermatitis following (case report), 10: 512
  - derivatives of, as local anesthetics (Rose & others), 9: 373
  - saddle block in obstetrics with (Andros), 10: 517
- PIRO, J. D., SPROUL, E. E., ZEGARELLI, E. V., and KUTSCHER, A. H., Effect of Elocaine on the oral mucous membrane, 15: 397
- PISETSKY, J. E., Hemiplegia following ether anesthesia, 6: 522
- Pitocin: see Oxytocin
- Pitressin: see Vasopressin
- PITTINGER, C. B., CONN, H. L., FEATHERSTONE, R. M., STICKLEY, E., LEVY, L., and CULLEN, S. C., Observations on the kinetics of transfer of xenon and chloroform between blood and brain in the dog, 17: 523
- PITTINGER, C. B., FAULCONER, A., KNOTT, J. R., PENDER, J. W., MORRIS, L. E., and BICKFORD, R. G., Electro-encephalographic and other observations in monkeys during xenon anesthesia at elevated pressures, 16: 551
- PITTINGER, C. B., and KEASLING, H. H., Theories of narcosis, 20: 204
- PITTINGER, C. B., and MORRIS, L. E., Placental transmissions of *d*-tubocurarine chloride from maternal to fetal circulation in dogs, 14: 238
- PITTINGER, C. B., MOYERS, J., CULLEN, S. C., FEATHERSTONE, R. M., and GROSS, E. G., Clinicopathologic studies associated with xenon anesthesia, 14: 10
- PITTINGER, C. B., see DEVINE, J. C., jt. auth.
- PITTINGER, C. B., see LONG, J. P., jt. auth.
- PITTINGER, C. B., see MORRIS, L. E., jt. auth.
- PITTINGER, C. B., see MOYERS, J., jt. auth.
- PITTINGER, C. B., see PEARCY, W. C., jt. auth.
- PITTINGER, C. B., see WATLAND, D. C., jt. auth.
- Pituitary
- adrenal response to surgical trauma and anesthesia (Traina & others), 14: 449
  - extract, with ephedrine, pressor activity of (Melville), 7: 176
  - surgery, anesthetic management of hypophysectomized patients (Tung & others), 17: 739
- Pituitrin
- during anesthesia (Parsole & others), 11: 76
  - with Pentothal, circulatory collapse following (Hesselschwerdt & Medbury), 10: 544
- PIZZULATO, P., and RENEGAR, O. J., Histopathological effects of prolonged exposure of nerves to local anesthetics (abs.), 20: 134
- Placebo as preanesthetic medication for regional procedures (Eger & Keasling), 20: 1

- Placenta, transmission of *d*-tubocurarine chloride from maternal to fetal circulation in dogs (Pittinger & Morris), 14: 238
- Plasma
- Pentothal in, concentration of (Bollman & others), 11: 1
  - volume expanders (Tarow), 16: 598
  - volume, after spinal anesthesia (Guest & others), 10: 291
- Plastic surgery
- anesthesia for (Gordon), 3: 507
  - anesthesia for facial surgery (Shaw), 9: 303
- PLEKSS, O. J., see FOLDES, F. F., jt. auth.
- Plethysmograph, digital as a clinical guide to the peripheral circulation during anesthesia, shock and hemorrhage (Foster & others), 6: 246
- Pneumatic balance
- respirator (c.c.), 13: 113
  - resuscitator (Adelman & others), 10: 673
- Pneumoencephalography, and air embolism: simulated anesthetic death (Jacoby & others), 20: 336
- Pneumectomy: see also Thoracic Surgery
- airway obstruction during (c.c.), 20: 385
  - anesthesia for (Neff & others), 3: 314
- Pneumotachograph, infant (abs.), 18: 168
- Pneumothorax
- incidence following brachial plexus block analgesia (Moore & Bridenbaugh), 15: 475
  - precordial click (c.c.), 20: 891
- POE, M. F., Clot observation test for clinical diagnosis of clotting defects, 20: 825
- POE, M. F., The Negro as an anesthetic risk, 14: 85
- POE, M. F., The use of Aramine as a pressor agent during spinal anesthesia, 15: 547
- POE, M. F., Use of methoxamine hydrochloride as a pressor agent during spinal analgesia, 13: 89
- POE, M. F., and KARP, M., Clinical application of desoxyephedrine hydrochloride, 10: 484
- POE, M. F., see SHAPIRO, N. D., jt. auth.
- POHLE, F. J., see HAWK, M. H., jt. auth.
- Poisoning: see also under name of specific substance
- local anesthetic, pharmacological re-evaluation (Steinhaus), 18: 275
  - toxic reaction in epidural anesthesia (c.c.), 17: 632
- POLETTI, T., BENA, S., SGARBI, M., and CAMERON-CURRY, V., Clinical evaluation of the cervicothoracic sympathetic nerve block in the management of some cerebrovascular accidents, 20: 576
- Poliomyelitis, treatment, intravenous procaine (Grubard & Peterson), 10: 175
- POLLOCK, P., HARMEL, M. H., and CLARK, R. E., Estimation of cardiac output by the ballistocardiograph during thiopental-nitrous oxide-oxygen anesthesia, 16: 970
- Polycythemia, relation to anesthesia (Barbour), 11: 155
- Polyethylene tubing, use in nerve block (Sarnoff & Sarnoff), 12: 270
- Polythene glycol, vehicle for bromsalizol to prolong sympathetic block (Harmel & others), 8: 266
- POOL, J. L., see PURPURA, D. P., jt. auth.
- Pontocaine: see Tetracaine
- PORTER, W. E., Therapy for debilitated self-expression: or, how to write and make sense (edit.), 18: 328
- Position
- change of, effect on response to morphine (Drew & others), 7: 44
  - during laminectomy (Hunter), 11: 367
  - effect on
    - blood pressure (corr.), 9: 555
    - circulation of anesthetized patients (Eather & others), 10: 130
    - nerve injuries (Dhuner), 11: 289
    - pulmonary function (Sokalchuk & others), 10: 577
    - pulmonary ventilation (Waterous & others), 11: 538
    - respiration (Stephen), 9: 134
    - vital capacity (Case & Stiles), 7: 29
- prone
- foam rubber horseshoe pad for (c.c.), 16: 1039
  - special pad for patients in (c.c.), 16: 465
  - surgical posture: with symbols for its record on the anesthetists chart (Miller), 1: 241
- POSSATI, S., SAARI, J. M., and FAULCONER, A., Analysis of gases in blood with the mass spectrometer. V. The determination of concentrations of cyclopropane in blood by total extraction of gases, 15: 196
- POSSATI, S., see PATRICK, R. J., jt. auth.
- Postanesthesia Room: see Recovery Room
- Postanesthesia Unit (Anderson & Miller), 10: 351
- POSTMA, E. Y., see BYRD, M. L., jt. auth.
- Postoperative: see under Surgery
- Potassium salts, effect on detoxication of local anesthetics (Wastl), 2: 661
- POTTER, J. K., and WHITACRE, R. J., Pontocaine-desxtrose-ephedrine for spinal anesthesia, 7: 499
- POU, L. H., see MAKEL, H. P., jt. auth.
- POWELL, W. F., Operative course of digitalized surgical patients, 14: 159
- POWERS, S. R., see BOBA, A., jt. auth.
- PRAGLIN, J., see HUBAY, C. A., jt. auth.
- Pramoxine, surface (new) anesthetic agent (Peal & Karp), 15: 637
- PRATT, W. H., see BONICA, J. J., jt. auth.
- Pravocaine, local anesthetic, comparative qualities (Crawford), 14: 278, (correction), 14: 623
- Praeanesthetic medication
- anileridine (c.c.), 20: 113
  - for cardiac surgery, in children (McQuiston), 10: 590
  - children, oral and intramuscular routes (Root), 20: 49
  - combined use of narcotics and narcotic antagonists for (abs.), 20: 122

- effect of  
on cardiovascular force (Malt), 19: 353  
certain premedicants on traumatic shock produced in animals under ether anesthesia (Anderson & Essex), 475  
on ether content of arterial blood required for surgical anesthesia (Taylor & others), 18: 849
- effect on  
respiratory minute volume (Bennett & others), 10: 548  
signs of asphyxia (Allen & others), 10: 164  
for children (Jackson), 12: 293  
for children (Mark & others), 10: 401  
for children (West & Papper), 11: 279  
for infants and children (Leigh & Belton), 7: 611
- influence  
on apnea during anesthesia (Burststein), 2: 530  
on nausea and vomiting during spinal anesthesia (Sellman), 2: 333  
of, on vasomotor stability during spinal anesthesia (abs.), 20: 135  
for labor (Brown & others), 10: 15  
for obstetrics, practical aspects (Hershenson), 9: 73  
meperidine, the utility of, as a substitute for the opiates in preanesthetic medication (Rovenstine & Batterman), 4: 126  
preanesthetic preparation pediatric (Burststein), 14: 567  
preoperative preparation and choice of agents (Mousel), 11: 495  
pediatric, psychological preparation and (Francis & Cutler), 18: 106  
rectal Pentothal in children (Mark & others), 10: 401  
for regional procedures, meprobamate, pentobarbital and placebo (Eger & Keasling), 20: 1  
study of drugs for (abs.), 18: 159  
for thoracic surgery (Gruenwald & Sword), 10: 295  
with vinbarbital sodium (Lorhan), 5: 370
- Pregnancy  
physiologic changes during (Bown & Volpitta), 11: 651  
physiological changes during (review) (Marx & Orkin), 19: 258  
toxemias of, anesthesia during (McNeal), 11: 96  
Premedication: see Preanesthetic Medication; also under Anesthesia; Surgery; names of specific drugs
- PRESMAN, O., and SCHOTZ, S., Critical analysis of the use of intravenous morphine, 4: 53  
Pressor Amines: see under Vasopressor Agents  
Pressure breathing, rationale and hazards of (Ryder & Kehoe), 9: 21
- PRICE, H. L., CONNER, E. H., and DRIPPS, R. D., Concerning the increase in central venous and arterial blood pressures during cyclopropane anesthesia in man, 14: 1  
PRICE, H. L., DUNDEE, J. W., and CONNER, E. H., Rates of uptake and release of thiopental by human brain: relation to kinetics of thiopental anesthesia (abs.), 18: 171  
PRICE, H. L., LINDE, H. W., JONES, R. E., BLACK, G. W., and PRICE, M. L., Sympatho-adrenal responses to general anesthesia in man and their relation to hemodynamics, 20: 563  
PRICE, H. L., LURIE, A. A., JONES, R. E., PRICE, M. L., and LINDE, H. W., Cyclopropane anesthesia. II. Epinephrine and norepinephrine in initiation of ventricular arrhythmias by carbon dioxide inhalation, 19: 619  
PRICE, H. L., and PRICE, M. L., Determination of diethyl ether in blood, 17: 293  
PRICE, H. L., see LINDE, H. W., jt. auth.  
PRICE, H. L., see LURIE, A. A., jt. auth.  
PRICE, M. L., see LURIE, A. A., jt. auth.  
PRICE, M. L., see PRICE, H. L., jt. auth.  
PRICKETT, M. D., GROSS, E. G., and CULLEN, S. C., Spinal analgesia with solutions of procaine and epinephrine: a preliminary report on 108 cases, 6: 469  
PRIDDLE, H. D., see ANDROS, G. J., jt. auth.  
Priestly, Joseph, Jan Ingen Housz and, controversy on carbon dioxide absorption (Foregger), 17: 511
- Procaine  
anaphylactic reaction to (Schiff & Schiff), 10: 753  
blood levels of after intravenous injection (Graubard & others), 8: 236  
Cobefrin with, sensitivity to (case report), 6: 86  
cranial arteriography, use of intracarotid arterial, during (abs.), 19: 96  
cytotoxicity (Gittelson), 10: 202  
duration of local anesthesia in relation to concentration of (Leser), 1: 205
- effect on  
excitability of muscle and nerve (Sollman & Estable), 9: 188  
heart (Burststein & others), 11: 299  
heart (Harken & Norman), 11: 321  
heart (Long & others), 10: 406  
heart (Wedd & Blair), 12: 261  
liver function (Jacoby & others), 9: 481  
liver function (Steinberg), 10: 739  
painful neuromuscular disorders (Marton & others), 10: 629
- effect of sympathomimetic amines on duration of spinal anesthesia with (Helrich & others), 12: 595  
failure to reverse cyclopropane-epinephrine ventricular fibrillation (Stutzman & others), 6: 57  
with general anesthesia (Taylor & others), 11: 185  
in management of cardiac disturbances (Burststein), 10: 133  
intracisternal, urine secretion during diffusion respiration following apnea induced by (Irwin & others), 16: 665



- intravenously  
 experiences with (Barbour & Tovell), 9: 514  
 in the treatment of acute arrhythmias (Burstein), 7: 113  
 metabolism of (Isenberger), 10: 343  
 neuropharmacology of, central nervous actions (Peterson), 16: 976  
 neuropharmacology of, peripheral nervous actions (Peterson), 16: 678  
 pharmacologic action of (Isenberg), 10: 343  
 pontocaine solution, spinal anesthesia with (Marvin), 9: 434  
 with pontocaine, caudal anesthesia in obstetrics (Crawford & Chester), 10: 473  
 protection against cyclopropane-epinephrine arrhythmias (Nickerson & Smith) 10: 562  
 resistance to (case report), 9: 313  
 for spinal anesthesia with epinephrine (Prickett & others), 6: 469  
 sulfonamide antagonism, an evaluation of local anesthetics for use with sulfonamide therapy (Pfeiffer & Grant), 5: 605  
 therapeutic uses (Graubard & Peterson), 10: 175  
 tolerance for, injected into the subarachnoid space (Burford), 3: 159
- Procaine amide  
 effect of, on electrocardiogram during endotracheal intubation (Peters & others), 12: 673  
 effects on cardiac irregularities during cyclopropane anesthesia (Morris & Haid), 12: 328  
 preanesthetic medication with (Burstein), 13: 510
- PROCTER, D. F., see KING, B. D., jt. auth.
- Promethazine: see under Phenothiazines
- Propethylene (see Ether, isopropenyl vinyl)
- Propoxycaïne Hydrochloride (Ravocaine) local anesthetics (new) (Ludueno), 16: 751
- Prostigmine, action of (case report), 7: 568
- Prothrombin time  
 effect of anesthetics on (Levy & Conroy), 7: 276  
 studies on the early postoperative reduction of in the jaundiced and biliary fistula patient with special reference to anesthesia (Allen & Livingstone), 1: 89
- Protoplasm, effect of anesthetics (Seifriz), 11: 24
- Protoplasmic behavior, theory of anesthesia based on (Seifriz), 2: 300
- Psychological preparation  
 of children for anesthesia (Jackson), 12: 293  
 and premedication for pediatric anesthesia (Francis & Cutler), 18: 106
- Psychology, relation to anesthesia (Raginsky), 11: 391
- PUGH, A. E., see LORHAN, P. H., jt. auth.
- PULASKI, E. J., see TARROW, A. B., jt. auth.
- Pulmonary Edema: see also Complications  
 a complication of spinal anesthesia (c.c.), 4: 640  
 case report (Eason & Karp), 4: 263  
 during anesthesia (Bookhamer & Cullen), 4: 263  
 spinal anesthesia in the treatment of (Sarnoff & Farr), 5: 69
- Pulmonary Embolus, treatment of, by stellate block (Bageant & Rapee), 8: 501
- Pulmonic stenosis, anesthesia for surgical treatment of (Harmel & Lamont), 7: 477
- Pulse  
 detector (electronic) (c.c.), 16: 645  
 effects of common respiratory phenomena during general anesthesia on (Jones & others), 17: 325  
 monitor system for, simple, constant (c.c.), 16: 466  
 pressure, absence of (case report), 9: 655  
 rate and blood pressure during Fluothane anesthesia (Moyers & Pittinger), 20: 605  
 rate, in children, during anesthesia (Jackson), 9: 573
- Pressormeter (c.c.), 17: 373
- Pruritus, treatment, intravenous procaine (Graubard & Peterson), 10: 175
- Punch Cards: see under Anesthesia, records; Records
- PURPURA, D. P., POOL, J. L., HOUSEPIAN, E. M., GIRADO, M., JACOBSON, S. A., and SEYMOUR, R. J., Hypothermic potentiation of centrally induced cardiac irregularities, 19: 27
- Pyribenzamine (Tripelethnamine)  
 evaluation of effectiveness as analgesic agent in regional anesthesia (Betcher & Tang), 16: 214  
 topical anesthetic agent in bronchoscopy (Mathieu & Crandell), 14: 572
- Pyridoxine, failure of in nausea and vomiting (Kernis & Stodsky), 11: 212
- QUASTEL, J. H., see GEDDES, I. C., jt. auth.
- Quinidine  
 effect on arrhythmias induced by cyclopropane and cyclopropane-epinephrine (Huggins & others), 11: 623  
 preoperative use of (Harken & Norman), 11: 321
- QUINN, C., see KNOEFEL, P. K., jt. auth.
- RAAB, W., Neurogenic and hormonal hypotension, 16: 781
- Racemorphan (Dromoran)  
 as a supplement during nitrous oxide anesthesia (Wilkins & others), 12: 145  
 use of for preoperative medication (Stoelting & others), 12: 225
- RACKOW, H., see BERGMAN, N. A., jt. auth.
- Radiation  
 pharmacological action of anesthetic agents in irradiated animals (Wilson), 16: 503  
 sickness and anesthesia (translation from Russian), 19: 792
- RAGINSKY, B. B., Mental suggestion as an aid in anesthesia, 9: 472

- RAGINSKY, B. B., Some psychosomatic aspects of general anesthesia, 11: 391
- RAMACHANDRA, V., see DENT, S. J., jt. auth.
- RAND, W. M., see BUNKER, J. P., jt. auth.
- RANDALL, A. D., see WRIGHT, W. H., jt. auth.
- RANDALL, H. T., see TUNG, P. P., jt. auth.
- RANDT, C. T., see DAVIS, H. S., jt. auth.
- RAO, R. V. S., see RUBEN, J. E., jt. auth.
- RAPEE, L. A., see BAGEANT, W. E., jt. auth.
- RAPOPORT, A. E., see CASSELS, W. H., jt. auth.
- RASKIND, R., see HICKCOX, C. B., jt. auth.
- Rauwolfia Serpentina (Reserpine)  
effect on action of various vasopressors (abs.), 20: 123; (Eger & Hamilton), 20: 641
- RAYDIN, I. S., Anesthesiologists, surgeons and malpractice suits (edit.), 20: 377
- RAUDIN, I. S., Surgeon comments on the specialty of anesthesiology (edit.), 2: 207
- Ravocaine: see Propoxycaïne Hydrochloride
- RAY, E. S., and VINSON, P. P., Hexylcaïne—a new topical anesthetic agent, 14: 315
- Rebreathing System: see under Apparatus
- Recorders: see Apparatus
- Records: see also Anesthesia, records  
anesthetic, protection for (corr.), 18: 509  
Chicago card (c.c.), 8: 204  
combined anesthesia record and statistical card (Pender), 7: 607  
inhalation therapy, a method for the collection and analysis of statistics (Saklad & others), 5: 359  
keysort, anesthesia and recovery (Livingstone & others), 11: 422  
military service (Wangeman), 2: 179  
statistical systems in anesthesiology (Saklad & Sellman), 7: 146  
surgical posture: with symbols for its record on the anesthetists chart (Miller), 1: 241
- Recovery Room  
record (c.c.), 20: 219  
recovery room (Lowenthal & Russel), 12: 470  
for the supervised emergence of the anesthetized patient (Anderson), 12: 604
- REED, J. P., KEMPH, J. P., HAMELBERG, W., HITCHCOCK, F. A., and JACOBY, J., Studies with transtracheal artificial respiration, 15: 28
- REES, V. L., see SMITH, S. M., jt. auth.
- REESE, N. O., see DAVIS, D. A., jt. auth.
- Reflexes: see also specific organs, e.g., Larynx, Carotid Sinus  
control of vagal cardiovascular reflexes during surgery (Fisher & Winsor), 14: 586  
from the mouth, trachea and esophagus which stimulate respiration (Reid & Bruce), 4: 345  
respiratory, originating from the thoracic wall of the dog (Whitehead & Draper), 8: 159
- Reflex sympathetic dystrophy, treatment, intravenous procaine (Grubard & Peterson), 10: 175
- Refrigeration  
anesthesia for limb operations (Allen), 4: 12  
during cardiac surgery in children (McQuiston), 10: 590
- Regional Anesthesia: see Anesthesia, regional
- Regurgitation, silent, and aspiration during anesthesia (Berson & Adriani), 15: 644
- REICHEL, J., see KENDRICK, D. B., jt. auth.
- REID, L. C., Anesthesia in relation to cardiac disease, 2: 161
- REID, L. C., and BRACE, D. E., Reflexes from the mouth, trachea and esophagus which stimulate respiration, 4: 345
- REITMAN, J. H., see KNUTSON, R. C., jt. auth.
- Relaxants: see under Muscle Relaxants; Muscles; Nerves
- Relaxation: a meditative essay (Gillespie), 1: 292
- REMBER, R. R., see VIRTUE, R. W., jt. auth.
- Renal: see Kidney
- RENCE, W. G., CULLEN, S. C., and HAMILTON, W. K., Observations on the heart sounds during anesthesia with cyclopropane or ether, 17: 26
- RENDELL-BAKER, L., see ZEEDICK, J. F., jt. auth.
- RENEGAR, O. J., see PIZZOLATO, P., jt. auth.
- RENNICK, B. R., see MOE, G. K., jt. auth.
- Research  
experimentation in anesthesiology in human beings (edit.), 14: 612  
influence of opiates upon experimental results (edit.), 17: 616  
its relationship to clinical anesthesiology (Dripps), 10: 690
- Reserpine: see Rauwolfia Serpentina
- Residencies: see also under Education  
required third year of training in anesthesia? (edit.), 19: 400  
Review Committee in Anesthesiology (miscellany), 18: 914
- Residents  
foreign, standards and (edit.), 17: 500  
training in anesthesiology (edit.), 14: 90
- Resins, ion exchange, observations on carbon dioxide absorption properties of (Smart & Derrick), 18: 216
- Respiration  
(edit.), 3: 204  
adjustments to increases in external dead space (Gordon & Hamilton), 17: 643  
airway obstruction during pneumonectomy (c.c.), 20: 385  
anomalies of ventilation during anesthesia (Stephen & others), 20: 162  
arterial blood pressure responses to changes in (edit.), 19: 552  
Arfonad induced hypotension and constant volume ventilation studies with (abs.), 19: 106  
artificial: see also Resuscitation  
manual versus mouth-to-mouth methods (abs.), 19: 111  
mouth-to-mouth (c.c.), 19: 414

- studies with transtracheal (Reed & others), 15: 28
- assisted and controlled, during anesthesia, for the maintenance of a near-normal physiologic state (Watrous & others), 11: 583; 11: 661; 11: 33; 12: 35
- automatic controlled (Adelman & others), 10: 673
- breathing in anesthesia, studies of (Wu & others), 17: 696
- caffeine, codeine, morphine and combinations of caffeine and narcotics, effect of, on respiratory center (abs.), 19: 95
- carbon dioxide
- response to (Landmesser & others), 14: 535
  - during narcotic and barbiturate depression in anesthetized man, comparative effects of levallorphan tartrate (Landmesser & others), 16: 520
  - effect of noscapine and codeine on (Bellville & others), 19: 545
  - effect of sleep on (Bellville & others), 20: 628
  - "transients" (Landmesser & others), 18: 807
  - during ether and cyclopropane anesthesia (Cobb & others), 19: 359
- cardiac rate and rhythm during steady levels of cyclopropane anesthesia at normal and elevated end-expiratory carbon dioxide tensions (Lurie & others), 19: 457
- cardio-respiratory effects and pharmacologic properties of hydroxydione (abs.), 19: 108
- central nervous system stimulant drugs, effect of in morphine respiratory depression (Handley & Ensberg), 6: 561
- of children (Leigh & Belton), 11: 592
- comparative effects of commonly used hypnotic and analgesic drugs in young and aged (abs.), 20: 131
- comparison of effects of suxamethonium (succinylcholine) and suxethonium (Foldes & others), 17: 559
- compliance in apneic anesthetized adults (Safar & Aguto-Escarraga), 20: 283
- control of during anesthesia (Slocum & others), 11: 427
- controlled
- effects of, on circulation during cyclopropane anesthesia (Etsten & others), 16: 365
  - effect on circulation (Eather & others), 10: 125
  - metabolic acidosis of hyperventilation produced by (Papadopoulos & Keats), 20: 156
  - pulmonary circulation in anesthetized patient with (abs.), 18: 173
- dead space, combined effect of thiopental-Flaxedil, intubation and atropine on (abs.), 18: 157
- depression
- analgesia for postoperative pain without (Cullen & Santos), 16: 674
  - due to morphine in anesthetized man, effect of N-allylnormorphine upon (Landmesser & others), 14: 535
  - opiate induced, effect of levallorphan tartrate upon (Hamilton & Cullen), 14: 550
- diffusion, see also apneic oxygenation
- after apnea from neuromuscular block, urine secretion during (Irwin & others), 18: 594
  - alveolar gases and venous blood pH of dogs during (Draper & others), 8: 524
  - changes in heart rate, blood pressure and electrocardiogram during (Parry & others), 10: 615
  - in the dog anesthetized with thiopental (Draper & Whitehead), 5: 262
  - following apnea induced by intracisternal injection of procaine hydrochloride (Irwin & others), 16: 665
  - mechanism of hypertension during (Tenney), 17: 768
  - oxygen and carbon dioxide content and hydrogen ion concentration during (Whitehead & others), 10: 54
  - survival of the dog following a prolonged period of respiratory arrest (Roth & others), 8: 294
- dihydrocodeine, effect of, upon (Eckenhoff & others), 18: 891
- effects
- of alternating positive and negative endotracheal pressures on caliber of bronchi (Lynch & others), 20: 325
  - during general anesthesia on arterial blood pressure and pulse (Jones & others), 17: 325
- ether anesthesia during (Patrick & Faulconer), 13: 252
- ether, diethyl, trichloroethylene and trifluoroethylvinyl ether, effects of, on (Dundee & Dripps), 18: 282
- fetal, intra-uterine, effect of Nisentil (Hurlbut & Dille), 13: 71
- function with single breath test, method of evaluating (Miller & others), 17: 480
- functions, method for studying, in awake or anesthetized patients (Eckenhoff & others), 17: 60
- halothane
- effects of (abs.), 19: 106
  - effects of (Burnap & others), 19: 307
  - effects of (Hall & Norris), 19: 339
  - studies during anesthesia (Devine & others), 19: 11
- hydroxydione properties of (Montmorency and others), 19: 450
- hypoventilation, carbon dioxide retention during (Earle & others), 19: 153
- interpretation of respiratory drug effects in man (Tenney), 17: 82
- local anesthetics, effects of, on, of rat brain cortex *in vitro* (Geddes & Quastel), 17: 666

lung thorax compliance during orthopedic surgery (Lynch & others), 20: 278  
 mechanical control of, a device for (Maloney & others), 13: 23  
 metabolic acidosis and hyperventilation (c.c.), 20: 721  
 minute volume and arterial oxygen saturation, during induction with nitrous oxide (abs.), 19: 94  
 monitor system for, simple, constant (c.c.), 16: 466  
 morphine  
     administered intravenously and intramuscularly, effect of, upon (Dripps & Comroe), 6: 462  
     morphine effect on responses to titling and (Drew & others), 7: 44  
 N-allylnormorphine  
     and levallorphan, effect on, during and after ether anesthesia (May & others), 18: 871  
     in secobarbital sodium narcosis, effects of, (Weakley & Bergner), 18: 603  
 narcotic analgetics and their antagonists, effects of (abs.), 18: 178  
 neonatal (c.c.), 13: 114  
 Nisentil, mepheridine and morphine, effect of on (Orkin & others), 16: 699  
 obstruction, at glottic level (Snyder & Cants), 14: 195  
 opiates, influence of, on response to thiopental (Helrich & others), 17: 459  
 oxygen deficiency and carbon dioxide excess during ether and barbiturate anesthesia in dog, effects of (Gordh & Åström), 16: 245  
 patterns during nitrous oxide-oxygen-ether anesthesia (Ridley & Faulconer), 13: 119  
 under pentobarbital sodium anesthesia in guinea pigs (Tabari & Becker), 19: 782  
 physiology of  
     recent developments in, related to anesthesia (Schmidt), 6: 113  
     the revolution in (edit.) (Schmidt), 5: 77  
 position, effect of, on (Sokalchuk & others), 10: 577  
 positive-negative pressure  
     circulatory dynamics of venous return during (Hubay & others), 15: 445  
     ventilation with modified Ayre's T-piece (Eger & Hamilton), 19: 611  
 positive pressure during anesthesia, some effects of (Knoefel & others), 6: 349  
 posture, effect of, on (Stephen), 9: 134  
 premedication, heavy, effect of, on (Bennett & others), 10: 548  
 preoperative and postoperative studies (Corder & others), 13: 142  
 promethazine, effects of, upon (Eckenhoff & others), 18: 703  
 and respiratory response to hypercapnia, effect of narcotics, thiopental and nitrous oxide upon (Eckenhoff & Helrich), 19: 240  
 thiopental anesthesia, studies during (Patrick & Faulconer), 13: 252

tidal volume  
     blood oxygenation as affected by, and tension of nitrous oxide-oxygen inhaled at one mile altitude (Weaver & Virtue), 16: 57  
     effect of changes in, and alveolar  $PCO_2$  on physiological dead space (abs.), 18: 160  
 ventilating bronchoscope (c.c.), 19: 406  
 ventilation  
     and arterial oxygen saturation during ether-air anesthesia (Ikezono & others), 20: 597  
     and circulation during surgery using volume displacement ventilator (abs.), 19: 100  
     during anesthesia for bronchoscopy (c.c.), 17: 623  
     method of, during bronchoscopy (c.c.), 18: 335  
     measurement, a method of during anesthesia (Maloney & others), 13: 571  
     postoperative disturbances in, following muscle relaxants in anesthesia (abs.), 20: 121  
 ventilators  
     performance of, changes in lung-thorax compliance (Elam & others), 19: 56  
     physiological evaluation of (abs.), 18: 177  
     volume ventilation valve (c.c.), 20: 885  
 Respiratory tract, relation to anesthesia (Iglauer), 3: 195  
 Respirators  
     automatic (Adelman & others), 10: 673  
     carbon dioxide controlled, carbon dioxide and oxygen blood levels with (Frumin & others), 20: 313  
     new (Van Bergen & others), 17: 708  
     physiological, producing nitrous oxide amnesia-analgesia (Frumin), 18: 290  
     use of positive-negative pressure respirator during pulmonary surgery for patients with pulmonary emphysema (Siebecker & Curtis), 18: 856  
     wrap-around chest, bronchoscopy and laryngoscopy with (abs.), 20: 127  
 Respiratory Valves: see Valves, respiratory  
 Resuscitation  
     apparatus for (Kreiselman), 4: 608  
     infant (c.c.), 6: 537  
     of infants (case report), 4: 438  
     mouth-to-mouth (c.c.), 19: 685  
     mouth-to-mouth airway (c.c.), 18: 904  
     mouth-to-tracheotomy tube (c.c.), 19: 802  
     newborn  
         infant, use of Aleveaire and spreading factor (hyaluronidase) as aids in pulmonary expansion (Bloxsom), 16: 41  
         technique for (c.c.), 18: 136  
     and oxygen therapy (Warnock & Tovell), 1: 187  
     after pentobarbital poisoning, in rabbits (Schack & others), 11: 452  
     rescue breathing card (c.c.), 20: 890  
     principles of (Swann), 14: 126  
     physiological principles underlying (Behnke), 2: 245

- "tight jaw" in (c.c.), 20: 701  
 under anesthesia, early reports (Stetson), 20: 62  
 of war wounded (Beecher), 7: 644
- Resuscitator  
 combination resuscitator and aspirator (c.c.), 19: 408  
 electric current (c.c.), 20: 113
- Review articles  
 Electroencephalography in anesthesiology (Martin & others), 20: 359  
 Hypothermia (Little), 20: 842  
 Narcosis, theories of (Pittinger & Keasling), 20: 204  
 Oozing, the problem of, during surgery (Crosby), 20: 685  
 Pregnancy, physiological changes during (Marx & Orkin), 19: 258  
 Pressor amines, cardiovascular effects of (Aviado), 20: 71  
 Respiration, assisted and controlled during anesthesia, for the maintenance of a near normal physiologic state (Watrous & others), 12: 538; 11: 611; 12: 33  
 Translaryngeal Anesthesia (Gold & Beuchel), 20: 181
- REYNOLDS, R. N., see ETSTEN, B., jt. auth.
- Rh factor  
 Rh factor (Collins & Nicholson), 5: 254  
 and the anesthesiologist (Pender), 13: 608  
 as the cause of erythroblastosis foetalis (Weiner & Brancato), 9: 175  
 in transfusion reactions (Wilson), 10: 189
- Rhizotomy, chemical, versus cordotomy for intractable pain (abs.), 19: 102
- RICE, G. C., and DABBS, C. H., The use of peridural and subarachnoid injections of saline solution in the treatment of severe post-spinal headache, 11: 17
- RICHARDS, R. C., see GREIF, E. W., jt. auth.
- RICHARDS, R. K., Toxicity of hypnotics as affected by temperature, thyroxin and adrenalectomy, 2: 37
- RICHARDS, R. K., and MENAKER, J. G., Role of picrotoxin in the treatment of acute barbiturate poisoning, 3: 37
- RICHARDS, R. K., and TAYLOR, J. D., Some factors influencing distribution, metabolism and action of barbiturates: a review, 17: 414
- RICHARDS, R. K., see DUNDEE, J. W., jt. auth.
- RIDLEY, R. W., and FAULCONER, A., Respiratory patterns during nitrous oxide-oxygen-ether anesthesia, 13: 119
- RIDLEY, R. W., FAULCONER, A., and OSBORN, J. E., Concentrations of oxygen, nitrous oxide, nitrogen and ether and their correlation with certain physiologic variables during surgical anesthesia in man, 12: 276
- RIDLEY, R. W., see FAULCONER, A., jt. auth.
- RIDLEY, R. W., see FIELDMAN, E. J., jt. auth.
- RILEY, P. A., BARILA, T. G., and HUGHES, C. W., Ventricular fibrillation in hypothermic dogs as influenced by thiopental, pentobarbital and succinylcholine, 17: 277
- RINK, R. A., GRAY, I., RUECKERT, R. R., and SLOCUM, H. C., The effect of hypothermia on morphine metabolism in an isolated perfused liver, 17: 377
- Risk, operative, method of grading (Saklad), 2: 281
- RISKIN, A. M., SEMERARO, D., and ROBERTAZZI, R. W., The control and management of hypertensive crises developing during surgical procedures, 15: 262
- RISTEEN, W. A., see VOLPITTO, P. P., jt. auth.
- Ritalin: see Methylphenidate
- RO-2-4557 (Ethylene Dioxidiethylene-bis-[Diethyl-p-nitrobenzyl-ammonium Bromide]) new synthetic muscle relaxant in clinical anesthesia (abs.), 18: 155
- ROBBINS, B. H., Clinical observations on the use of amidones for analgesia, 10: 280
- ROBBINS, B. H., and LUNDY, J. S., Curare and curare-like compounds: a review, 8: 252, 348
- ROBBINS, B., see GREENE, B. A., jt. auth.
- ROBERTAZZI, R. W., see GRAUBARD, D. J., jt. auth.
- ROBERTAZZI, R. W., see PETERSON, M. C., jt. auth.
- ROBERTAZZI, R. W., see RISKIN, A. M., jt. auth.
- ROBIN, P. A., and COLLINS, V. J., Roentgenological study of the male sacrum as an aid in caudal analgesia, 6: 505
- ROBINSON, E. B., see GRADY, R. W., jt. auth.
- ROBINSON, M. H., Deterioration of solutions of Pentothal sodium 8: 166; (erratum) 8: 663
- ROBSON, J. G., GILLIES, D. M., CULLEN, W. G., and GRIFFITH, H. R., Fluothane (halothane) in closed circuit anaesthesia, 20: 251
- ROCCO, A. G., and VANDAM, L. D., Problems in anesthesia for paraplegics, 20: 348
- ROCCO, A. G., see GALLA, S. J., jt. auth.
- ROCHBERG, S., Clinical observations on n-propyl methyl ether, 8: 637
- ROCHBERG, S., and APGAR, V., Combined use of ephedrine and epinephrine in spinal anesthesia, 3: 49
- ROCHE, G. K. T., Anaesthesia of recent injuries of the jaw and face, 7: 233
- ROCHLIN, I., see DENSTEDT, O. F., jt. auth.
- RODABAUGH, G. S., see HAMPTON, L. J., jt. auth.
- Roentgen therapy, cyclopropane sensitivity and (Foster), 17: 735
- ROLPH, W. D., see ECKENHOFF, J. E., jt. auth.
- ROLPH, W. D., see HELDRICH, M., jt. auth.
- ROMAN-VEGA, D. A., and ADRIANI, J., Efficiency of Oenethyl (2, methyl amino heptane) as a vasopressor substance for spinal anesthesia, 7: 62
- ROMAN, D. A., and ADRIANI, J., Nupercaine-glucose for spinal anesthesia; results of over 5,000 clinical administrations, 10: 270
- ROMBERGER, F. T., see HAAS, H. B., jt. auth.
- ROOT, B., Preanesthetic medication for children: comparison of oral and intramuscular routes, 20: 49



- ROOT, W. S., see McALLISTER, F. F., *jt. auth.*
- ROSE, A. T., Sodium Pentothal: actual experience in the combat zone, 4: 534
- ROSE, C. L., CARNEY, T. P., CHEN, K. K., and McELVAIN, S. M., New piperidine derivatives as local anesthetics, 9: 373
- ROSEMAN, E., see BERGNER, R. P., *jt. auth.*
- ROSENBERG, A. W., A rapid method for evaluating the suction bottle component of blood loss at surgery, 16: 722
- ROSENBLUM, E., see SCHWARTZ, A. L., *jt. auth.*
- ROSENOW, E. C., MOUSEL, L. C., and LUNDY, J. S., Further studies on muscular spasms during general anesthesia. Experimental results with neurotropic streptococci from nasopharynges of patients, 6: 12
- ROSENER, S., NEWMAN, W., and BURSTEIN, C. L., Electrocardiographic studies during endotracheal intubation. VI. Effects during anesthesia with thiopental sodium combined with a muscle relaxant, 14: 591
- ROSS, M. H., see SEIFRIZ, W., *jt. auth.*
- ROSS, P. S., and ALLEN, R. O., Electronarcosis, 4: 630
- ROSSIER, B. H., and SCHNEIDER, M., The unflexed back and a low incidence of severe spinal headache, 17: 288
- Rotameter in anesthesia (Foregger), 7: 549
- ROTH, L. W., WHITEHEAD, R. W., and DRAPER, W. B., Studies on diffusion respiration. II. Survival of the dog following a prolonged period of respiratory arrest, 8: 294
- ROVENSTINE, E. A., Abstract of address of retiring president. The American Society of Anesthetists, Inc., December 14, 1944, 6: 196
- ROVENSTINE, E. A., Incidence, diagnosis and management of coma, 6: 1
- ROVENSTINE, E. A., The selective professional society during world turmoil (*edit.*), 4: 197
- ROVENSTINE, E. A., and APCAR, V., Spinal anesthesia with Monocaine formate: results in 2,230 cases, 5: 40
- ROVENSTINE, E. A., and BATTERMAN, R. C., Utility of Demerol as a substitute for the opiates in preanesthetic medication, 4: 126
- ROVENSTINE, E. A., and HERSHEY, S. G., Therapeutic and diagnostic nerve blocking: a plan for organization, 5: 574
- ROVENSTINE, E. A., and HERSHEY, S. G., Utility of apomorphine in clinical anesthesia, 6: 574
- ROVENSTINE, E. A., HERSHEY, S. G., LANZA, S., BAEZ, A., and BAEZ, S., Relationship of bowel and liver to drug protection against shock, 20: 290
- ROVENSTINE, E. A., PAPPER, E. M., and BRADLEY, S. E., Circulatory adjustments during spinal anesthesia in normal man with special reference to the autonomy of arteriolar tone, 3: 421
- ROVENSTINE, E. A., see ADRIANI, J., *jt. auth.*
- ROVENSTINE, E. A., see BARACH, A. L., *jt. auth.*
- ROVENSTINE, E. A., see BURDICK, D. L., *jt. auth.*
- ROVENSTINE, E. A., see BURSTEIN, C. L., *jt. auth.*
- ROVENSTINE, E. A., see CILBERTI, B. J., *jt. auth.*
- ROVENSTINE, E. A., see CLARK, R. E., *jt. auth.*
- ROVENSTINE, E. A., see DOUD, E. A., *jt. auth.*
- ROVENSTINE, E. A., see FINER, G. H., *jt. auth.*
- ROVENSTINE, E. A., see FOSTER, A. D., *jt. auth.*
- ROVENSTINE, E. A., see HELDRICH, M., *jt. auth.*
- ROVENSTINE, E. A., see HERSHEY, S. G., *jt. auth.*
- ROVENSTINE, E. A., see MARTIN, S. J., *jt. auth.*
- ROVENSTINE, E. A., see MILOWSKY, J., *jt. auth.*
- ROVENSTINE, E. A., see ORKIN, L. R., *jt. auth.*
- ROVENSTINE, E. A., see PAPPER, E. M., *jt. auth.*
- ROVENSTINE, E. A., see SAKLAD, M., *jt. auth.*
- ROVENSTINE, E. A., see SECHZER, P. H., *jt. auth.*
- ROVENSTINE, E. A., see TRAINA, V., *jt. auth.*
- ROVENSTINE, E. A., see WERTHEIM, H. M., *jt. auth.*
- ROWBOTHAM, S., see THORNTON, H. L., *jt. auth.*
- ROWE, G. G., see MAXWELL, G. M., *jt. auth.*
- ROWE, R. P., see GIARMAN, N. J., *jt. auth.*
- RUBEN, H. M., Concerning the concentration of inhaled gases in semiclosed anesthesia systems, 14: 459
- RUBEN, H., and HESSE, H., Adjustable respiratory valves offering low resistance to flow of gas, 17: 782
- RUBEN, J. E., Experience with a pain clinic, 12: 601
- RUBEN, J. E., JAMISON, W., and RAO, R. V. S., Alevaire as an adjunct for preventing pulmonary complications after thoracotomy (a comparative study of 200 cases), 16: 801
- RUBEN, J. E., and KAMSLER, P., Continuous lumbar sympathetic block, 10: 92
- RUBEN, J. E., and KISTLER, E. M., An evaluation of hypobaric Pontocaine for spinal anesthesia with a report of 200 cases, 10: 621
- RUBEN, J. E., see ANDERSON, E., *jt. auth.*
- RUBEN, J. E., see KISTLER, E. M., *jt. auth.*
- RUDEL, H., see MONTMORENCY, F. A., *jt. auth.*
- RUECKERT, R. R., see RINK, R. A., *jt. auth.*
- RUGGIERO, W. F., see COTUI, F., *jt. auth.*
- RUIGH, W. L., and ERICKSON, A. E., Variation of the oil-water distribution ratio of divinyl ether with concentration, 2: 546
- RUMBALL, A. C., see LUND, P. C., *jt. auth.*
- RUMBLE, L., COOPER, M. N., BICKERS, D. S., SCHELLACK, J. K., WAITS, E. J., and HYATT, K., Observations during apnea in conscious human subjects, 18: 419
- RUPP, N. H., The teaching of anesthesiology, 12: 486
- RUPP, N. H., see PAYNE, J. N., *jt. auth.*
- RUSHIA, E. L., see HESSELSCHWERDT, D. W., *jt. auth.*
- RUSSELL, A. S., see LOWENTHAL, P. J., *jt. auth.*
- Ruth, Henry Swartley  
obituary, 17: 639  
tributes, 18: 130
- RUTH, H. S., GROVE, D. D., and KEOWN, K. K., Endobronchial anesthesia by means of an improved endobronchial airway, 9: 422

- RUTH, H. S., see HAUGEN, F. P., jt. auth.
- RUZICKA, E. R., Anesthesia for Naval air personnel: experiences at a Naval hospital, 6: 385
- RYDER, H. W., and KEHOE, R. A., Rationale and hazards of pressure breathing and oxygen therapy, 9: 21
- RYDIN, H., see GORDH, T., jt. auth.
- SAARI, J. M., see HATTOX, J. S., jt. auth.
- SAARI, J. M., see JONES, C. S., jt. auth.
- SAARI, J. M., see PATRICK, R. T., jt. auth.
- SAARI, J. M., see POSSATI, S., jt. auth.
- SABAWALA, P. B., and DILLON, J. B., The action of some antibiotics on the human intercostal nerve-muscle complex, 20: 659
- SABAWALA, P. B., and DILLON, J. B., Action of volatile anesthetics on human muscle preparations, 19: 587
- SABAWALA, P. B., and DILLON, J. B., The positive inotropic action of cyclopropane on human intercostal muscle *in vitro*, and its modification by *d*-tubocurarine, 19: 473
- SABAWALA, P. B., GUNTER, R., and DILLON, J. B., Persistence of electrical activity in the heart after "clinical death," 18: 236
- SABAWALA, P. B., see DILLON, J. B., jt. auth.
- Sacrum, male, roentgenological study of, as an aid in caudal anesthesia (Robin & Collins), 6: 505
- SADOVE, M. S., BALAGOT, R. C., and LINDE, H. W., Trifluoroethylvinyl ether (Fluoromar). I. Preliminary clinical and laboratory studies, 17: 591
- SADOVE, M. S., BALAGOT, R. C., and LINDE, H. W., Effects of trifluoroethylvinyl ether (Fluoromar) on some organ function (abs.), 18: 171
- SADOVE, M. S., and LEVIN, M. J., The Illinois E-Z sort anesthesia record card, 19: 178
- SADOVE, M. S., WYANT, G. M., JULIAN, O. C., and DYE, W. S., Anesthesia for mitral commissurotomy, 16: 133
- SADOVE, M. S., see TOVELL, R. M., jt. auth.
- SAFAR, P., and AGUTO-ESCARRAGA, L., Compliance in apneic anesthetized adults, 20: 283
- SAFAR, P., and BACHMAN, L., Compliance of the lungs and thorax in dogs under influence of muscle relaxants, 17: 334
- SAFAR, P., and ELAM, J., Manual versus mouth-to-mouth methods of artificial respiration (abs.), 19: 111
- SAFAR, P., see DeKORNFELD, T. J., jt. auth.
- Safety, recommended safe practice (edit.), 17: 745
- SAKLAD, E., see SAKLAD, M., jt. auth.
- SAKLAD, M., Criteria in the choice of anesthesia, 2: 172
- SAKLAD, M., Grading of patients for surgical procedures, 2: 281
- SAKLAD, M., The special care unit; its place in postoperative care, 20: 822
- SAKLAD, M., DWYER, C. S., KRONENBERG, S., NEVES, E., and SORKIN, M., Intraspinal segmental anesthesia: a preliminary report, 8: 270
- SAKLAD, M., GILLESPIE, N., and ROVENSTINE, E. A., Inhalation therapy; a method for the collection and analysis of statistics, 5: 359
- SAKLAD, M., and SELLMAN, P., Statistical systems in anesthesiology, 7: 146
- SAKLAD, M., SELLMAN, P., and SAKLAD, E., Ether-air anesthesia: a technic, 6: 597
- SAKLAD, M., see BUSCHLE, D. F., jt. auth.
- SAKLAD, M., see DWYER, C. S., jt. auth.
- SALDAMANDO, J., see WALTON, C. H., jt. auth.
- SALERNO, P. R., see JACOBY, J. J., jt. auth.
- Saliva  
secretion, effect of phenglutarimid on (Wyant & Haley), 20: 581
- SALTER, W. T., The heaven of the profession (edit.), 11: 374
- SALTER, W. T., and WHITE, M. L., Morphine "sensitivity," 10: 553
- SANCHEZ, F. R., see DAVENPORT, H. T., jt. auth.
- SANDERS, R. D., New endotracheal instruments, 8: 57
- SANDERS, R. L., Surgeon-anesthetist relations, 6: 273
- SANKEY, B. B., and WHITACRE, R. J., Nupercaine and dextrose 1:1500 solution for spinal anesthesia, 2: 203
- SANTIAGO, M., MOORE, T. M., and DODD, R. B., The influence of premedicating drugs on vasomotor stability during spinal anesthesia (abs.), 20: 135
- SANTOS, C. C., see CULLEN, S. C., jt. auth.
- SAPENFIELD, R. S., Blueprint for the future (edit.), 18: 897
- SARNOFF, L., see SARNOFF, S. J., jt. auth.
- SARNOFF, S. J., Functional localization of intraspinal catheters, 11: 360
- SARNOFF, S. J., and COPE, O., The effect of atropine and scopolamine on the subsequent injection of epinephrine in thyrotoxic and euthyroid patients, 15: 484
- SARNOFF, S. J., and FARR, H. W., Spinal anesthesia in the therapy of pulmonary edema: a preliminary report, 5: 69
- SARNOFF, S. J., and SARNOFF, L. C., Prolonged peripheral nerve block by means of indwelling plastic catheter. Treatment of hiccup. (Note on the electrical localization of peripheral nerve), 12: 270
- SARNOFF, S. J., see ARROWOOD, J. G., jt. auth.
- SARNOFF, S. J., see NICHOLSON, M. J., jt. auth.
- SAUERWALD, M. J., see KRANTZ, J. C., JR., jt. auth.
- SAUNDERS, P., An analysis of inhalation anesthesia by graphic means, 5: 274
- SAUNDERS, P., Management of positive pressure in endotracheal anesthesia, 10: 743
- Scalp, potential, effect of anesthesia on (Burge), 6: 61

- SCHACK, J. A., GOLDBAUM, L. R., and FAISON, E. D., The value of artificial respiration in pentobarbital poisoning of rabbits, 11: 452
- SCHALLEK, W., and WALZ, D., Effects of drug-induced hypotension on the electro-encephalogram of the dog, 15: 673
- SCHAMP, J. R., SCHAMP, H. M., and TANTER, M. L., Pharmacological effects of Monocaine hydrochloride, 3: 295, 398
- SCHAMP, H. M., see SCHAMP, J. R., jt. auth.
- SCHAPIRO, M. M., see ARNOLD, L., jt. auth.
- SCHIEDT, J., see MOORE, D. C., jt. auth.
- SCHIEFLEY, C. H., Pentothal sodium: its use in the presence of hepatic disease, 7: 263
- SCHNEIDER, M., see HIMMELSTEIN, A., jt. auth.
- SCHELLACK, J. K., see RUMBLE, L., jt. auth.
- SCHERF, D., see BRACE, D. E., jt. auth.
- SCHIFF, L. F., and SCHIFF, L. J., Anaphylactic reaction to intravenous administration of procaine, 10: 753
- SCHIFF, L. J., see SCHIFF, L. F., jt. auth.
- SCHILLER, F., Local anesthetic effects of sodium Amytal (preliminary report), 14: 321
- SCHILLING, E. A., see MORRIS, L. E., jt. auth.
- SCHMIDT, C. F., Recent developments in respiratory physiology related to anesthesia, 6: 113
- SCHMIDT, C. F., The revolution in respiratory physiology (edit.), 5: 77
- SCHNEIDER, M., see ROSSER, B. H., jt. auth.
- SCHOTZ, S., Clinical aspects of pulmonary atelectasis (with case report of a death under anesthesia), 4: 293
- SCHOTZ, S., and BIRKMIER, E. L., A new approach to the use of electroshock devices in combating ventricular fibrillation, 16: 441
- SCHOTZ, S., BLOOM, S. S., HELMSWORTH, F. W., DODGE, H. C., and BIRKMIER, E. L., The ear oximeter as a circulatory monitor. Preliminary report, 19: 386
- SCHOTZ, S., see CULL, W. A., jt. auth.
- SCHOTZ, S., see HELMSWORTH, F. W., jt. auth.
- SCHOTZ, S., see PRESMAN, O., jt. auth.
- SCHUHMACHER, L. F., and EVERSOLE, U. H., Technics of spinal anesthesia, 3: 630
- SCHUHMACHER, L. F., see HUGGINS, R. A., jt. auth.
- SCHULKINS, T., see LAWRENCE, S. H., jt. auth.
- SCHULTZ, E. A., see CEDARLEAF, S. J., jt. auth.
- SCHULTZ, E. A., see VAN BERGEN, F. H., jt. auth.
- SCHULTZ, F. H., The local anesthetic properties of ephedrine hydrochloride, 1: 69
- SCHUSTER, B., see MAXWELL, G. M., jt. auth.
- SCHWAB, J. M., see MARTIN, S. J., jt. auth.
- SCHWARTZ, A. L., and ROSENBLUM, E., Management of the anesthetized patient, 8: 395
- SCHWARTZ, A. L., see ABRAMSON, D. I., jt. auth.
- SCHWARTZ, H., and DEROETH, A., Effect of succinylcholine on intraocular pressure in human beings (abs.), 19: 112
- SCHWARTZ, H., see FRUMIN, M. J., jt. auth.
- SCHWEISS, J. F., FRUMIN, M. J., and GOLDENSOHN, E. S., The electroencephalographic manifestations of amnesia and analgesia produced by  $N_2O$  and by ether (abs.), 18: 172
- SCHWEIZER, O., Complications of anesthesia during radical surgery about the head and the neck, 16: 927
- SCHWEIZER, O., see BELLVILLE, J. W., jt. auth.
- SCIALLI, V. A., see NATHAN, A., jt. auth.
- Scopolamine  
compared to atropine in children (West and Papper), 11: 279  
effect of  
and atropine on subsequent injection of epinephrine in thyrotoxic and euthyroid patients (Sarnoff & Cope), 15: 484  
and pentobarbital sodium on human subjects (Hawk & Wangeman), 4: 238  
on man (Orkin & others), 17: 30  
effect on  
blood gases during parturition (Brown and Volpitta), 11: 652  
human subjects (Wangeman & Hawk), 3: 24  
respiratory minute volume (Bennett & others), 10: 548  
signs of asphyxia during nitrous oxide anesthesia (Allen & others), 10: 164  
sweating (Frumin & Papper), 12: 627  
with Demerol, during labor (Brown & others), 10: 15
- SCOTT, H. W., see OWENS, G., jt. auth.
- SCOVILLE, W. B., see HICKCOX, C. B., jt. auth.
- SEARLES, P. W., see GUEST, S. I., jt. auth.
- Seasons  
effect on  
cardiac arrhythmias (Nickerson and Smith), 10: 562  
toxicity of Delvinal in rats (Carmichael), 9: 418
- SECHZER, P. H., and ROVENSTINE, E. A., Pulmonary circulation in the anesthetized patient with controlled respiration (abs.), 18: 173
- SECHZER, P. H., see DRIPPS, R. D., jt. auth.
- SECHZER, P. H., see EGBERT, L. D., jt. auth.
- Secobarbital Sodium (Seconal)  
analgesic and hypnotic actions (Hart and Weaver), 9: 278  
effect on heart muscle (Halbeisen & others), 10: 585  
experimental and clinical evaluation of (Virtue and Gootee), 12: 642  
intravenous (Bryce-Smith & Hingson), 15: 347  
in polyethylene glycol as a basal hypnotic (Bush & others), 12: 447  
narcosis, respiratory effects of N-allylnormorphine in (Weakley & Bergner), 18: 603  
spinal anesthetic effects of (Morrison & others), 12: 315
- Seconal: See Secobarbital Sodium
- SEED, J. C., see BELLVILLE, J. W., jt. auth.
- SEEVERS, M. H., see CASSELS, W. H., jt. auth.
- SEEVERS, M. H., see CONROY, W. A., jt. auth.
- SEEVERS, M. H., see STORMONT, R. T., jt. auth.

- SEEVERS, M. H., see WYNGAARDEN, J. B., jt. auth.
- Segmental Peridural Anesthesia: see under Anesthesia, epidural
- Segmental Spinal Anesthesia: see under Anesthesia, spinal
- SEIFRIZ, W., The effects of various anesthetic agents on protoplasm, 11: 24
- SEIFRIZ, W., Theory of anesthesia based on protoplasmic behavior, 2: 300
- SEIFRIZ, W., and ROSS, M. H., The anesthesia of excised chick hearts and its relation to the myogenic and neurogenic origin of the heart beat, 5: 589
- SEKELJ, P., see STEPHEN, C. R., jt. auth.
- SELDON, T. H., Regional anesthesia for surgery of the thorax and abdominal wall, 2: 194
- SELDON, T. H., Regional anesthetic procedures around the vertebral column, 2: 669
- SELDON, T. H., and LUNDY, J. S., Local and regional anesthesia, 3: 540
- SELDON, T. H., LUNDY, J. S., and ADAMS, R. C., A blood transfusion service, dangers and safeguards, 1: 122
- SELDON, T. H., LUNDY, J. S., and ADAMS, R. C., Stimulation of wound healing: a new use for powdered blood cells, 5: 566
- SELDON, T. H., LUNDY, J. S., and ADAMS, R. C., Transfusions of blood and plasma, 5: 22
- SELDON, T. H., LUNDY, J. S., and ESSEX, H. E., Effect of certain general anesthetic agents on the small blood vessels in the ear of the rabbit, 3: 146
- SELDON, T. H., see ADAMS, R. C., jt. auth.
- SELDON, T. H., see WHITEHOUSE, S., jt. auth.
- SELDON, T. H., see YEAKEL, E. L., JR., jt. auth.
- SELLMAN, P., Nausea and vomiting during spinal anesthesia especially as influenced by pre-operative narcotics, 2: 333
- SELLMAN, P., see SAKLAD, M., jt. auth.
- SELMANTS, S., see KENNEDY, R. L., jt. auth.
- SELVIN, B., Myanesin: A study in postoperative pain relief, 15: 174
- SELYE, H., and HEARD, R. D. H., Fish assay for the anesthetic effect of the steroids, 4: 36
- SEMERARO, D., see RISKIN, A. M., jt. auth.
- SENIFF, A. M., see BROWN, E. S., jt. auth.
- Sensitization: see Allergy
- Sensitivity: see under names of specific substances
- SERGEANT, W. F., and DRIPPS, R. D., Attempts to prolong and intensify spinal anesthesia by the addition of ephedrine, neosynephrin or epinephrine to a Pontocaine-glucose solution, 10: 260
- SERGEANT, W. F., see DRIPPS, R. D., jt. auth.
- Serum
- sickness, treatment, intravenous procaine (Gru-bard and Peterson), 10: 175
- transaminase levels following prolonged surgical anesthesia (Lawrence & Schulkins), 17: 531
- Servo-anesthetizer (Soltero & others), 12: 581
- SESSOMS, G. W., WATTS, D. T., CHASE, H. F., and ANDREWS, P. M., Effect of Pentothal and Pentothal plus nitrous oxide-oxygen anesthesia upon blood sugar levels in man, 16: 235
- SEVERINGHAUS, J. W., Electrodes for blood  $P_{O_2}$  and  $PCO_2$  determination (abs.), 20: 136
- SEVERINGHAUS, J. W., and CULLEN, S. C., Depression of myocardium and body oxygen consumption with Fluothane, 19: 165, (abs.), 113
- SEYMOUR, R. J., see PURPURA, D. P., jt. auth.
- SGARBI, M., see POLETTI, T., jt. auth.
- SHAAR, C. M., see HALE, D. E., jt. auth.
- SHAFTIEL, H. E., see ANSBRO, F. P., jt. auth.
- SHANE, S. M., see WHITE, M. L. T., jt. auth.
- SHANNON, G. E., see BLACK, C., jt. auth.
- SHANOR, S. P., see FOLDES, F. F., jt. auth.
- SHAPIRO, N. D., and POE, M. F., Sickle-cell disease: an anesthesiological problem, 16: 771
- SHAPIRO, L., see GREISHEIMER, E. M., jt. auth.
- SHAW, W. M., Anesthesia for plastic surgery of the face, 9: 303
- SHAW, W. M., Edema of the larynx, a rare complication of endotracheal anesthesia: case report, 7: 416
- SHAW, W. M., Paralysis of the phrenic nerve during brachial plexus anesthesia, 10: 627
- SHEEHAN, J. C., see MARCUS, P. S., jt. auth.
- SHEEHAN, W. C., see PAPPER, E. M., jt. auth.
- SHIDEMAN, F. E., KELLY, A. R., LEE, L. E., LOWELL, V. F., and ADAMS, B. J., The role of the liver in the detoxication of thiopental (Pentothal) by man, 10: 421
- SHIDEMAN, F. E., see STORMONT, R. T., jt. auth.
- Shivering, following thiopental sodium and other anesthetic agents (Smith & others), 16: 655
- Shock
- anesthesia for the patient in (Gould), 5: 129
- circulation during, evaluation of with the digital plethysmograph (Foster & others), 6: 246
- at the conclusion of cyclopropane anesthesia (Dripps), 8: 15
- drug protection against, relationship of bowel and liver to (Rovenstine & others), 20: 290
- early recognition and treatment of (Drew), 3: 176
- effect of
- ether, cyclopropane and Pentothal in shocked rats (Virtue & others), 17: 47
- premedication in animals under ether anesthesia (Anderson & Essex), 4: 475
- reactivity to morphine (Salter & White), 10: 553
- experimental, protection against (Hershey & others), 17: 265
- following the combined use of Pituitrin and thiopental (Hesselschwerdt & Medbury), 10: 544
- hemorrhagic, cyclopropane anesthesia after (Hershey & Rovenstine), 5: 149
- influence of chlorpromazine on survival time in rats (Virtue & Jones), 17: 601

- insulin, during anesthesia (Papper & others), 3: 660
- norepinephrine in various states of (Eckenhoff & Dripps), 15: 681
- use of Pentothal sodium during (Adams & Grey), 4: 70
- relation of depth of anesthesia (Stephen), 13: 540
- shock (Green), 3: 611
- traumatic, a study of under anesthetics (Pender & Essex), 4: 247
- treatment, a practical approach (Kendrick & Reichel), 4: 497
- venous pressure during (Anderson & Lundy), 10: 145
- validity of features of decompensatory phase of, as signs of irreversibility (abs.), 18: 166
- Shoes, role in explosions (Greene), 13: 203
- SHORE, R., see KNOEFEL, P. K., jt. auth.
- SHORTZ, G., see DOUD, E. A., jt. auth.
- SHUKYS, J. G., and NEELEY, A. H., Studies of the formation and decomposition of ether peroxides, 19: 671
- SIEBECKER, K. L., and CURTIS, J. K., Anesthesia for patients with pulmonary emphysema: use of positive-negative pressure respirator during pulmonary surgery, 18: 856
- SIEBECKER, K. L., and LAND, J. F., Lack of laryngeal trauma after use of the Carlens catheter, 17: 660
- SIEBECKER, K. L., and MENDENHALL, J. T., Some anesthetic problems during thoracic surgical procedures, 17: 468
- SIEBECKER, K. L., and ORTH, S. O., A report of seven administrations of chloroform for open thoracic operations, 17: 792
- SIEBECKER, K. L., and STEINHAUS, J. E., Cardiac arrhythmias produced by mechanical stimulation during hypothermia (abs.), 19: 113
- SIEBECKER, K. L., see DEKORNFELD, T. J., jt. auth.
- SIGLER, L. E., see TAYLOR, I. B., jt. auth.
- SIKER, E. S., A mirror laryngoscope, 17: 38
- Skeletal Muscle: see Muscles skeletal
- Skin
- concentration of thiopental in (Bollman & others), 11: 1
- focal sensitivity (subcutaneous), relation to referred pain of cardiac origin (Kennard & Haugen), 16: 297
- temperature, during anesthesia (Foregger), 4: 392
- tissue oxygen tension, effects of general anesthetics on (Greene & others), 20: 830
- SLATER, H. M., and STEPHEN, C. R., Hypobaric Pontocaine spinal anaesthesia in children, 11: 709
- SLATER, H. M., see STEPHEN, C. R., jt. auth.
- SLAUGHTER, D., New concepts of morphine analgesia, 5: 508
- Sleep, effect of, on respiratory response to carbon dioxide (Bellville & others), 20: 628
- SLOCUM, H. C., Apparatus for the automatic recording of diastolic and systolic blood pressure in clinical practice, 3: 141
- SLOCUM, H. C., and ALLEN, C. R., Orotracheal anesthesia for cheiloplasty, 6: 355
- SLOCUM, H. C., COOPER, B. M., and ALLEN, C. R., The control of respiration in anesthesia, 11: 427
- SLOCUM, H. C., and FINVOLD, R., Ionization of the air: a method for the dispersion of charges of static electricity, 5: 33
- SLOCUM, H. C., see ALLEN, C. R., jt. auth.
- SLOCUM, H. C., see COOPER, B. M., jt. auth.
- SLOCUM, H. C., see GREEN, H. D., jt. auth.
- SLOCUM, H. C., see NGAI, S. H., jt. auth.
- SLOCUM, H. C., see ORTH, O. S., jt. auth.
- SLOCUM, H. C., see RINK, R. A., jt. auth.
- SMART, R. C., and DERRICK, W. S., Observations on the carbon dioxide absorption properties of ion exchange resins, 18: 216
- SMART, R. C., see DERRICK, W. S., jt. auth.
- SMESSAERT, A., and COLLINS, V. J., Use of mephentermine as a pressor agent during spinal anesthesia, 16: 795
- SMITH, B., and ADRIANI, J., Studies on newer analeptics and the comparison of their action with pentylenetetrazole, nikethamide and picrotoxin (abs.), 19: 115
- SMITH, D. L., and VIRTUE, R. W., Succinylcholine: A case report and experimental study, 15: 42
- SMITH, C. P., see MOYER, J. H., jt. auth.
- SMITH, F. A., Unusual incidents following spinal anesthesia: a report of two cases, 1: 419
- SMITH, F. A., see HAYNES, W. G., jt. auth.
- SMITH, P. K., WINKLER, A. W., and HOFF, H. E., Pharmacological actions of parenterally administered magnesium salts. A review, 3: 323
- SMITH, R. H., Normal blood volumes in men and women over sixty years of age as determined by a modified  $\text{Cr}^{51}$  method, 19: 752
- SMITH, R. M., Circulatory factors affecting anesthesia in surgery for congenital heart disease, 13: 38
- SMITH, R. M., BACHMAN, L., and BOUGAS, T., Shivering following thiopental sodium and other anesthetic agents, 16: 655
- SMITH, R. M., and WILEY, H. P., Evaluation of electrocardiography during congenital heart surgery, 18: 398
- SMITH, R. N., see KENNEDY, R. L., jt. auth.
- SMITH, S. M., Use of curare in infants and children, 8: 176
- SMITH, S. M., BROWN, H. O., TOMAN, J. E. P., and GOODMAN, L. S., Lack of cerebral effects of d-tubocurarine, 8: 1
- SMITH, S. M., and REES, V. L., The use of prolonged continuous spinal anesthesia to relieve vasospasm and pain in peripheral embolism, 9: 229
- SMITH, S. M., see NICKERSON, M., jt. auth.



- SMITH, S. M., see TOVELL, R. M., jt. auth.
- SMITH, S. M., see WU, J. J., jt. auth.
- SMITH, W. R., see BERGNER, R. P., jt. auth.
- SNOW, John, legacy of (Bergman), 19: 595
- SNYDER, J. J., Hypobaric spinal anesthesia: a review of the literature and some clinical observations, 12: 301
- SNYDER, J. J., and GANTS, R. J., Respiratory obstruction at the glottic level, 14: 195
- Social Security  
ballot results (miscellany), 18: 348  
(miscellany), 18: 654
- Soda Lime: see also under Absorbents, carbon dioxide  
activity and surface area of (Brown), 19: 208  
dispenser (c.c.), 20: 709  
effect of moisture content upon efficiency of carbon dioxide absorption (Adriani), 6: 163  
fire hazard (corr.), 14: 99  
indicator (Adriani), 5: 45  
regeneration of (Foregger), 9: 15
- Sodium Benzoate, effect on excitability of muscle and nerve (Sollmann & Estable), 9: 188
- Sodium Bisulfite  
analgesic effectiveness of morphine solution containing (Keats & Beecher), 14: 140; (corr.), 15: 108
- Sodium Salts, effect on detoxication of local anesthetics (Wastl), 2: 661
- Sodium Succinate  
effect of, (and some of its derivatives) on thiopental anesthesia (Giarman & others), 15: 122  
Pentothal antagonism (Tucci & others), 10: 25  
in pentobarbital depression of cerebral cortex and medulla oblongata (Larson & others), 16: 239
- Sodium Salicylate, effect on excitability of muscle and nerve (Sollmann & Estable), 9: 188
- SOKALCHUK, A., ELLIS, B. A., HICKCOX, C., and GREISHEIMER, E. M., Pulmonary function as affected by operative position, 10: 577
- SOLLMANN, T., and ESTABLE, J. J., The action of procaine, salicylate and benzoate of sodium on the excitability of skeletal muscle and of nerve, 9: 188
- SOLTERO, D. E., FAULCONER, A., JR., and BICKFORD, R. G., Clinical application of automatic anesthesia, 12: 574
- Solution: see also under names of specific substances  
compatible, for administration with blood (Buschle & Saklad), 14: 53, (corr.), 14: 319
- SOMERFIELD, R., and TOVELL, R. M., Case report: successful treatment of hysterical paralysis with Pentothal sodium and psychotherapy, 2: 59
- SOMMERFIELD, R. B., Anesthetist's interest in lipiodo-bronchography, 3: 61
- SONNENSCHNEIN, R. R., The central nervous system and anesthesia, 15: 19
- SORKIN, M., see SAKLAD, M., jt. auth.
- SOUTHWORTH, J. L., see KENSLE, P. M., jt. auth.
- Species, differences (edit.), 19: 799
- Spectrometer, portable (Buckley & others), 13: 455
- SPENCER, C. H., and COAKLEY, C. S., Clinical evaluation of Syncurine (decamethonium bromide)—a two year study, 16: 125
- SPENCER, J. N., see DRAPER, W. B., jt. auth.
- SPENCER, J. N., see PARRY, T. M., jt. auth.
- SPENCER, J. N., see WHITEHEAD, R. W., jt. auth.
- SPERRY, W. L., The anesthetist's part in the doctor-patient relationship (edit.), 13: 545
- Spinal Analgesia: see Anesthesia, spinal
- Spinal Cord  
cordotomy versus chemical rhizotomy for intractable pain (abs.), 19: 102  
epidural block anesthesia for cordotomy (Krumperman & others), 18: 316  
hypertension during anesthesia in patients with injuries (Ciliberti & others), 15: 273
- Spinal Fluid: see Cerebrospinal Fluid
- Spinal Needle: see under Needles; Apparatus
- Spinal Puncture  
headache: see also Anesthesia, spinal; Complications  
after (lumbar), technique to minimize occurrence by use of small bore spinal needles (Wetchler & Brace), 16: 270  
incidence of postlumbar puncture headache following spinal anesthesia (Harris & Harmel), 14: 390
- SPIRE, L. J., see BRACE, D. E., jt. auth.
- SPITZER, N., see MARTON, R., jt. auth.
- SPROUL, E. E., see PIRO, J. D., jt. auth.
- STACHIEWICZ, E., see HOSEIN, E. A., jt. auth.
- Standards: see under Apparatus
- STANSFIELD, H., see DENSTEDT, O. F., jt. auth.
- Static electricity, dispersion of, by ionization of the air (Slocum & Finvold), 5: 33
- Stator in lessening explosive hazards (c.c.), 10: 229
- Statistics  
anesthetic, recording of (Wangeman & Martin), 6: 64  
value in anesthesiology (Ting), 13: 1
- Statistical Analysis  
and biometrics in anesthesia (edit.) (c.c.), 20: 725, 881
- Statometer in detecting static in operating rooms (Uhl & others), 10: 483
- STEARNS, A. B., see TAYLOR, I. B., jt. auth.
- STECHISHIN, O., Nupercaine spinal anesthesia for upper abdominal surgery of long duration, 10: 494
- STEELE, J. D., The narcotic as a factor in post-operative nausea and vomiting, 4: 430
- STEELE, J. D., see NARODICK, B. G., jt. auth.
- STEGEMAN, D. E., see FISHER, K., jt. auth.
- STEINBERG, B. L., Experience with tetraethyl ammonium chloride (Etamon) in peripheral vascular diseases and allied conditions in a veterans hospital, 10: 429

- STEINBERG, B. L., Intravenous procaine: its effect on liver function in man as determined by the cephalin flocculation test, 10: 739
- STEINBERG, B. L., and BISHOP, H. F., Abducens nerve palsy following spinal anesthesia, 7: 296
- STEINBROCKER, O., see MARTON, R., jt. auth.
- STEINHAUS, J. E., Comparative study of the experimental toxicity of local anesthetic agents, 13: 577
- STEINHAUS, J. E., A comparison of thiopental, meperidine and lidocaine as depressants of the cough reflex (abs.), 20: 136
- STEINHAUS, J. E., Local anesthetic toxicity: a pharmacological re-evaluation, 18: 275
- STEINHAUS, J. E., see SIEBECKER, K. L., jt. auth.
- Stellate Ganglion  
significance in practice (Hickcox & others), 4: 150  
block: see also Nerves, block  
anterolateral approach (Volpitto & Risteen), 5: 491  
in cerebral vascular occlusions (Volpitto & Risteen), 4: 403  
a simplified technic (c.c.), 7: 671  
in the treatment of pulmonary embolus (Bageant & Rapee), 8: 500
- STEPHEN, C. R., Clutethimide (Doriden) as an anesthetic agent (abs.), 20: 137
- STEPHEN, C. R., The influence of posture on mechanics of respiration and vital capacity, 9: 134
- STEPHEN, C. R., Relation of light or deep anesthesia to shock, 13: 540
- STEPHEN, C. R., Technics in pediatric anesthesia—the nonbreathing method, 13: 77
- STEPHEN, C. R., BOURGEOIS-GAVARDIN, M., and DENT, S., Anomalies of ventilation during anesthesia, 20: 162
- STEPHEN, C. R., BOWERS, M. A., NOWILL, W. K., and MARTIN, R. C., Anticholinergic drugs in preanesthetic medication, 17: 303
- STEPHEN, C. R., LAWRENCE, J. H., FABIAN, L. W., BOURGEOIS-GAVARDIN, M., DENT, S., and GROSSKREUTZ, D. C., Clinical experience with Fluothane—1,400 cases, 19: 197
- STEPHEN, C. R., MARGOLIS, G., FABIAN, L. W., and BOURGEOIS-GAVARDIN, M., Laboratory observations with Fluothane, 19: 770
- STEPHEN, C. R., NOWILL, W. K., and MARTIN, R., Diagnosis and treatment of hypotension during anesthesia, 14: 180
- STEPHEN, C. R., and SLATER, H. M., Newer anesthetic agents in children, with special reference to trichlorethylene and Kemithal, 12: 135
- STEPHEN, C. R., SLATER, H. M., JOHNSON, A. L., and SEKELJ, P., The oximeter—a technical aid for the anesthesiologist, 12, 541
- STEPHEN, C. R., WOODHALL, B., GOLDEN, J. B., MARTIN, R., and NOWILL, W. K., The influence of anesthetic drugs and techniques on intracranial tension, 15: 365
- STEPHEN, C. R., see BORDERS, R. W., jt. auth.
- STEPHEN, C. R., see BOURGEOIS-GAVARDIN, M., jt. auth.
- STEPHEN, C. R., see DENT, S. J., jt. auth.
- STEPHEN, C. R., see FABIAN, L. W., jt. auth.
- STEPHEN, C. R., see GRIFFITH, H. R., jt. auth.
- STEPHEN, C. R., see HALL, K. D., jt. auth.
- STEPHEN, C. R., see JONES, W. M., jt. auth.
- STEPHEN, C. R., see LITTLE, D. M., jt. auth.
- STEPHEN, C. R., see MARTIN, R. C., jt. auth.
- STEPHEN, C. R., see NOWILL, W. K., jt. auth.
- STEPHEN, C. R., see SLATER, H. M., jt. auth.
- STEIN, A. A., see BOBA, A., jt. auth.
- STEIN, H. B., Ether allergy: a case report, 6: 515
- Sterilization, see also Disinfection; Decontamination  
of ampuls with ethylene oxide (Hallowell & others), 19: 665  
heat, of spinal anesthetic ampuls (Gerlich & others), 19: 386  
sterile packaging of anesthesia equipment (c.c.), 20: 117
- STERN, M., see PAPPER, E. M., jt. auth.
- Steroids: see also 21-Hydroxypregnanedione  
Sodium Succinate  
anesthesia, effects of, upon cardiac rhythm of dog (Traina & others), 17: 787  
fish assay for the anesthetic effect of (Selye & Heard), 4: 36
- STETSON, J. W., Resuscitation under anesthesia: some interesting early reports, 20: 62
- STEVEN, R. J. M., TOVELL, R. M., JOHNSON, J. C., and DELGADO, E., Anesthesia for electroconvulsive therapy, 15: 623
- STEVENS, E. J., Pentothal sodium: its use in continuous intravenous anesthesia and a method of preserving it in solution, 6: 376
- STEWART, G. H., see GREISHEIMER, E. M., jt. auth.
- STEWART, H. B., Anesthesiology in the practice of medicine (edit.), 10: 223
- STEWART, H. B., Presidential address (edit.) 11: 125
- STEWART, H. B., Volatile anesthetics—ether, chloroform, ethyl chloride and divinyl ether, 2: 635
- STICKLEY, E., see PITTINGER, C. B., jt. auth.
- STICKNEY, J. C., see VAN LIERE, E. J., jt. auth.
- STILES, J. A., see CASE, E. A., jt. auth.
- STODSKY, B., see CONROY, W. A., jt. auth.
- STODSKY, B., see KERNIS, L., jt. auth.
- STOECKLE, H. G. E., see EGGERS, G. W. N., jt. auth.
- STOELTING, V. K., and GRAF, J. P., Preliminary report of five new intravenous barbiturates, 15: 61
- STOELTING, V. K., THEYE, R. A., and GRAF, J. P., Use of Dromoran hydrobromide (3-hydroxy-N-methylmorphinan hydrobromide) for preoperative medication, 12: 225
- STOELTING, V. K., see CARRON, H., jt. auth.
- STOELTING, V. K., see GRUBER, C. M., jt. auth.
- STOELTING, V. K., see KRUEGER, J. E., jt. auth.

## Stomach

- anesthesia for gastric surgery, splanchnic block (Hale & Shaar), 3: 392
- contents, prevention of aspiration of (c.c.), 14: 506
- gas-tight method for gastric drainage tube in circle circuit (c.c.), 17: 205
- insertion of tubes (corr.), 18: 343
- STONE, H. H., MACKRELL, T. N., and WECHSLER, R. L., The effect on cerebral circulation and metabolism in man of acute reduction in blood pressure by means of intravenous hexamethonium bromide and head-up tilt, 16: 168
- STONE, H. H., see COLON-YORDAN, E., jt. auth.
- STONE, H. H., see GOLD, M. I., jt. auth.
- STONE, J. E., see IRWIN, R. L., jt. auth.
- STORMONT, R. T., HATHAWAY, H. R., SHIDEMAN, F. E., and SEEVES, M. H., Acid-base balance during cyclopropane anesthesia, 3: 369
- STORNI, M. P. C., and LUNDY, J. S., Effective administration of ether in the tropics, 5: 380
- STOUGH, J. A., see GRADY, R. W., jt. auth.
- STRAYER, W. M., Some methods of analysis and determination of anesthetic agents, 11: 599
- STRÖM, G., see GORDH, T., jt. auth.
- STROUT, W. G., see DWYER, C. S., jt. auth.
- STRIEDER, J. W., Anesthesia from the viewpoint of the thoracic surgeon, 11: 60
- STRUMIA, M. M., Blood transfusion reactions from apparently compatible blood, 12: 85
- Strychnine, Myanesisin antagonism (Wyngaarden & others), 10: 529
- STUBBS, D., see MOUSEL, L. H., jt. auth.
- STUBENSEY, L. A., A discussion of anesthetic procedures for the fenestration operation. (2,375 cases), 14: 303
- STUTZMAN, J. W., ALLEN, C. R., and MEEK, W. J., Prevention of cyclopropane-epinephrine tachycardia by diethyl ether, 3: 259
- STUTZMAN, J. W., ALLEN, C. R., and MEEK, W. J., Response of the digitalized heart to cyclopropane and epinephrine, 3: 644
- STUTZMAN, J. W., ALLEN, C. R., and ORTH, O. S., Failure of procaine to reverse cyclopropane-epinephrine ventricular fibrillation, 6: 57
- STUTZMAN, J. W., MURPHY, Q., ALLEN, C. R., and MEEK, W. J., Further studies on the production of cyclopropane-epinephrine tachycardia, 8: 579
- STUTZMAN, J. W., and PETTINGAR, F. L., Mechanism of cardiac arrhythmias during cyclopropane anesthesia, 10: 374
- STUTZMAN, J. W., see ALLEN, C. R., jt. auth.
- STUTZMAN, J. W., see ORTH, O. S., jt. auth.
- Subarachnoid Block: see Anesthesia, spinal
- Subarachnoid puncture, lateral approach (Surks and Wood), 12: 239
- Succinate Sodium: see Sodium Succinate
- Succinylcholine Chloride (Anectine, Suxamethonium Dichloride)
- action of, on motility of aneural smooth muscle and relationship to acetylcholine (Ferguson), 18: 413
- apnoea (c.c.), 17: 368
- blood cholinesterases, interrelationship of, during anesthesia (Borders & others), 16: 401
- bradycardia following, intravenous, in infants and children (Leigh & others), 18: 698
- in cardiovascular surgery of infants and children (Telford & Keats), 18: 841
- case report and experimental study (Smith & Virtue), 15: 42
- comparison of respiratory effects of, with suxethonium (Foldes & others), 17: 559
- dose response relationship and duration of action of, in anesthesia (Espinosa & Artusio), 15: 239
- drip during craniotomy (Hall & others), 20: 65
- effect of calcium on duration of apnea induced by (Irwin & others), 17: 759
- electroencephalogram of cat after intravenous injection (Acheson & others), 17: 802
- endotracheal
- extubation, use of during (Lambie & Pfaff), 17: 47
- intubation, use to facilitate (c.c.), 14: 93 (Hampton & others), 14: 382
- evaluation (Martin & others), 15: 179
- extender (Antonetti & others), 16: 742
- fate of, in man (Foldes & others), 16: 11
- intraocular pressure
- action of, on extraocular muscles and (Dillon & others), 18: 44
- depolarizing neuromuscular blocking agents and *in vivo* (Dillon & others), 18: 439
- effect of, on (abs.), 19: 112
- for laryngospasm during Pentothal anesthesia (corr.), 17: 212
- observations on potency of neuromuscular blocking agents (Hoppe), 16: 91
- prolonged effects of, and possible explanations for (Davis & others), 16: 333
- studies concerning prolongation of activity (Hampton & others), 16: 67
- subcutaneously (c.c.), 18: 342
- tetanus treatment (case report), 16: 1029
- thiopental-nitrous oxide, comparison with ether anesthesia for upper abdominal surgery (Bunker & others), 20: 745
- thoracic
- compliance in anesthetized subject using (abs.), 19: 116
- surgery, use in (Helmsthorpe & Schotz), 17: 175
- use, muscle relaxant in general anesthesia (Helmsthorpe & Schotz), 16: 1009
- ventricular fibrillation in hypothermic dogs, influence of, on (Riley & others), 17: 277
- Suction
- bottle component of blood loss at surgery, rapid method for evaluating (Rosenberg), 16: 722
- tracheobronchial, subarachnoid hemorrhage following, and "stir-up" regimen (case report), 15: 211
- SUGAR, O., see TEPLINSKY, L. L., jt. auth.

- during 401  
infants 98  
and child-  
Smith &  
a suxe-  
of ac-  
tusio),  
20: 65  
induced  
venous  
02  
Pfaff),  
14: 93  
Dillon  
agents  
39  
sthesia  
ascular  
nations  
ctivity  
ether  
urgery  
using  
, 17:  
sthesia  
gs, in-  
: 277  
rapid  
, 16:  
ge fol-  
(case
- SUGIOKA, K., BONIFACE, K. J., and DAVIS, D. A.,  
The influence of meperidine on myocardial  
contractility in the intact dog, 18: 623  
SUGIOKA, K., PETERS, R. M., DAVIS, D. A., TAIT,  
C. A., and WHITCHER, C. F., Thoracic  
compliance in the anesthetized human  
subject using cyclopropane, ethylvinyl  
ether (Vinamar) and succinylcholine  
(abs.), 19: 116  
SUGIOKA, K., see THORNTON, W., jt. auth.  
SULAK, M. H., see GREEN, H. D., jt. auth.  
Sulfonamides  
histopathology in rats, following (Lorhan &  
others), 2: 306  
with Pentothal sodium, dosage-mortality ratio  
(Lorhan & others), 2: 456  
procaine antagonism (Pfeiffer & Grant), 5: 605  
Sulfur hexafluoride, anesthetic properties of (Vir-  
tue & Weaver), 13: 605  
Sunburn preventives, cross sensitization from para-  
aminobenzoate in (Gaul), 16: 606  
SUNTAY, R., see LEAR, E., jt. auth.  
Suprascapular Nerve, block anesthesia (Wer-  
theim & Roventine), 2: 541  
Surgeons, anesthesiologists and malpractice suits  
(edit.), 20: 377  
Surgery: see also under names of specific organs  
and procedures  
analgesia for postoperative pain without respira-  
tory depression (Cullen & Santos), 16:  
674  
anesthesia  
effect of preanesthetic medication on ether  
content of arterial blood required for  
(Taylor & others), 18: 849  
for prolonged operation (c.c.), 18: 910  
before the days of (Clement), 14: 473  
blood loss, rapid method for evaluating suction  
bottle component (Rosenberg), 16: 722  
cardiovascular  
of infants and children (Telford & Keats),  
18: 841  
renal function during anesthesia for (Morris  
& others), 20: 608  
circulatory arrest in patients with complete  
heart block during (abs.), 18: 175  
craniopagus separation of (c.c.), 18: 908  
eye muscle, oculo-cardiac reflex in (Bosom-  
worth & others), 19: 7  
general, epidural anesthesia in (Lund & others),  
17: 605  
heart  
congenital, evaluation of electrocardiography  
during (Smith & Wiley), 18: 398  
elective cardiac arrest during cardiotomy  
(Hale & others), 18: 378  
intracardiac, anesthesia and supportive care  
during, with Gibbon-type pump-oxygenator  
(Patrick & others), 18: 673  
open  
experience using pump-oxygenator for  
(Mendelsohn & others), 18: 223  
with heart-lung bypass, electroencephalo-  
gram in patients undergoing (Davenport  
& others), 20: 674  
hypertensive crisis, control and management,  
developing during (Riskin & others), 15:  
262  
induced hypotension during anesthesia and  
(Little), 16: 320  
inflatable "rest" (c.c.), 20: 710  
intrathoracic, pulmonary function studies fol-  
lowing (abs.), 18: 174  
lung, anesthesia for, case reports (c.c.), 17:  
201  
maxillofacial, anesthesia in (Makel & others),  
14: 498  
operative course of digitalized surgical patients  
(Powell), 14: 159  
orthopedic, lung thorax compliance during  
(Lynch & others), 20: 278  
pheochromocytoma, surgical and anesthetic  
management (Thompson & Arrowood), 15:  
658  
postoperative  
alphaprodine hydrochloride with levallorphan  
tartrate or RO 1-7780 (Megirian & others),  
18:  
death after Fluothane (c.c.), 19: 562  
disturbances in ventilation following muscle  
relaxants in anesthesia (abs.), 20: 121  
nausea and vomiting  
control with Mareazine (Moore & others),  
17: 690  
control of with perphenazine (Moore &  
others), 19: 72  
evaluation of Mareazine and Bonamine in  
lowering incidence of (Tillman & others),  
17: 112  
pain relief, Myanesis in (Selvin), 15: 174  
vomiting  
incidence, analysis and therapeutic meas-  
ures, 3,000 patients (Dent & others), 16:  
564  
treatment (Marcus & Sheehan), 16: 423  
preoperative  
evaluation (edit.), 19: 275  
preparation of patient with coronary artery  
disease (Bellet), 17: 391  
recognition and treatment of bronchopulmon-  
ary disease (Miller & others), 18: 483  
problem of oozing during (review) (Crosby),  
20: 685  
prolonged serum transaminase levels following  
(Lawrence & Schulkins), 17: 531  
pulmonary, use of positive-negative pressure  
respirator during, for patients with pul-  
monary emphysema (Siebecker & Curtis),  
18: 856  
radical, head and neck, complications of anes-  
thesia during (Schweizer), 16: 927  
risk, ballistocardiogram, aid in evaluation  
(Wang & Howland), 17: 578  
sickle-cell disease, anesthesiological problem  
(Shapiro & Poe), 16: 771  
thoracic  
chloroform for, report of seven administra-  
tions of (Siebecker & Orth), 17: 792  
continuous peridural anesthesia for (c.c.),  
14: 316

- peridural anesthesia for (Crawford & others), 18: 241
- procedures, anesthetic problems during (Siebecker & Mendenhall), 17: 468
- studies in use of succinylcholine (Anectine) in (Helmworth & Schotz), 17: 175
- upper abdominal, comparison of ether anesthesia with thiopental-nitrous oxide-succinylcholine for (Bunker & others), 20: 745
- urinary excretion of Arfonad by patients undergoing "controlled hypotension" during (Gertner & others), 16: 495
- ventilation and circulation during, using volume displacement ventilator (abs.), 19: 100
- Surital, see Thiamylal
- SURKS, S. N., and WOOD, P. M., Lateral approach for subarachnoid puncture, 12: 239
- SURTEES, A. D., see BENDIXIN, H. H., jt. auth.
- SURTEES, A. D., see BUNKER, J. P., jt. auth.
- Suxamethonium Dichloride: see Succinylcholine Chloride
- Suxethonium Dibromide
- comparison of respiratory effects of, with suxethonium (Foldes & others), 17: 559
- SWAN, H., see ZEAVIN, I., jt. auth.
- SWAN, H. J. C., see MOFFITT, E. A., jt. auth.
- SWANN, H. G., The principles of resuscitation, 14: 126
- SWARTZ, C. H., ADRIANI, J., and MIH, A., Semi-closed inhalers: Studies of oxygen and carbon dioxide tensions during various conditions of use, 14: 437
- Sweating, effect of scopolamine (Frumin & Papper), 12: 627
- SWEENEY, J. C., see BLUNDELL, A. E., jt. auth.
- SWERDLOW, M., see FOLDES, F. F., jt. auth.
- SWORD, B. C., see GRUENWALD, C., jt. auth.
- SWORD, B. C., see MURPHY, J. D., jt. auth.
- SYKES, M. K., see BUNKER, J. P., jt. auth.
- Sympathomimetic Amines, effect on duration of spinal anesthesia (Helrich & others), 12: 595
- Sympathetic nerves
- block (edit.), 4: 301
- blocks, repeated, their limitation and value (Faust), 7: 161
- Sympathectomy, anesthetic management of patients undergoing, for hypertension (Pheleps & Burdick), 4: 361
- Syncurine: see Decamethonium Bromide
- Syntocinon: see Oxytocin
- Syringe: see Apparatus
- TABARI, K., and BECKER, R. F., Effect of pentobarbital sodium on hemoglobin and hematocrit values in guinea pigs, 19: 541
- TABARI, K., and BECKER, R. F., Respiration in guinea pigs under pentobarbital sodium anesthesia, 19: 782
- Tachycardia
- in children during anesthesia (Jackson), 9: 573
- cyclopropane-epinephrine
- prevention by diethyl ether (Stutzman & others), 3: 259
- protection from by various drugs (Allen & others), 2: 503
- TAINTER, M. L., The frontiers of anesthesia, 7: 132
- TAINTER, M. L., Summary of studies on the optimal composition of local anesthetic solutions, 2: 489
- TAINTER, M. L., and WINTER, L., Some general considerations in evaluating local anesthetic solutions in patients, 5: 470
- TAINTER, M. L., see SCHAMP, J. R., jt. auth.
- TAIT, C. A., DAVIS, D. A., GROSSKREUTZ, D. C., and BONIFACE, K. J., A new intravenous anesthetic—Dolitron, 17: 536
- TAIT, C. A., see SUGIOKA, K., jt. auth.
- TAKESHIMA, N., see TRAINA, V., jt. auth.
- TALLEY, A. W., see CARTER, A. B., jt. auth.
- TAMERIN, J. A., and DePOLO, E. J., Experiences in the use of general anesthesia for corrective rhinoplasty, 13: 94
- TANG, Z. T., see BETCHER, A. M., jt. auth.
- TARROW, A. B., The plasma volume expanders, 16: 598
- TARROW, A. B., and PULASKI, E. J., Reactions in man from infusion with dextran, 14: 359
- TARROW, A. B., TURKEL, H., and THOMPSON, M. S., Infusions via the bone marrow and biopsy of the bone and bone marrow, 13: 501
- TARROW, A. B., see CRISCUOLO, D., jt. auth.
- TAYLOR, D. B., The mechanism of action of muscle relaxants and their antagonists, 20: 439
- TAYLOR, D. B., see DILLON, J. B., jt. auth.
- TAYLOR, H. E., DOERR, J. C., GHARIB, A., and FAULCONER, A., Effect of preanesthetic medication on ether content of arterial blood required for surgical anesthesia, 18: 849
- TAYLOR, I. B., Cyclopropane anesthesia: with a report of the results in 41,690 administrations 2: 641
- TAYLOR, I. B., STEARNS, A. B., KURTZ, H. C., HENDERSON, J. C., SIGLER, L. E., and NOLTE, E. C., Intravenous procaine—an adjuvant to general anesthesia: a preliminary report, 11: 185
- TAYLOR, I. B., see HAUGEN, F. P., jt. auth.
- TAYLOR, J. D., see RICHARDS, R. K., jt. auth.
- Teaching: see under Education
- Technics
- basal anesthesia with rectal Pentothal (Burnap & others), 9: 526
- brachial block (Moore), 9: 281
- endobronchial intubation (Ruth & others), 9: 422
- epidural block (Lawrence), 9: 602
- spinal anesthesia (Schumacher & Eversole), 3: 630
- Teeth
- effects of nitrous oxide on responses evoked in brain stem by tooth stimulation (Haugen & Melzack), 18: 183



- TEITELBAUM, H. A., and GANTT, W. H., The effect of Nembutal anesthesia on the cardiac response to acetylcholine, 16: 261
- TELFORD, J., and KEATS, A. S., Succinylcholine in cardiovascular surgery of infants and children, 18: 841
- TELFORD, J., see KEATS, A. S., jt. auth.
- TELLA, R. A., see FOREGGER, R., jt. auth.
- Temperature  
of inspired air (c.c.), 9: 197  
body  
effect of anesthesia (Foregger), 4: 392  
effect on toxicity of hypnotics (Richards), 2: 37  
low effect on dogs (Woodruff), 2: 410  
skin, effect of spinal block (Milwidsky & de Vries), 9: 258
- TENNEY, S. M., Mechanism of hypertension during diffusion respiration, 17: 768
- TENNEY, S. M., The interpretation of respiratory drug effects in man, 17: 82
- TEN PAS, R., BROWN, E. S., and ELAM, J. O., Carbon dioxide absorption: the circle versus the to-and-fro, 19: 231
- TEN PAS, R. H., see ELAM, J. O., jt. auth.
- Tensilon use, with curare and nitrous oxide anesthesia (Morris & others), 14: 117
- TEPLINSKY, L. L., HARRIS, Z., CASSELS, W. H., and SUGAR, O., Anesthesia for neurosurgery, 10: 82
- Terminology  
nomenclature for methods of inhalation anesthesia (Moyers), 14: 609  
nomenclature for methods of inhalation anesthesia (corr.), 16: 149
- Tetanus  
treatment (Van Bergen & Buckley), 13: 599  
with curare (Binger and Deunich), 11: 199  
use of Myanesin (case report), 12: 120  
succinylcholine (case report), 16: 1029
- Tetracaine Hydrochloride (Pontocaine): see also Anesthesia, spinal, tetracaine  
for brachial block (Moore), 9: 281  
for bronchoscopy (Carabelli), 13: 169  
clinical use of for therapeutic and diagnostic nerve blocks (Moore), 11: 65  
concentration of, in cerebrospinal fluid during spinal anesthesia, influence of epinephrine in prolonging sensory anesthetic effect (Converse & others), 15: 1  
convulsions following use of (case report), 10: 231  
continuous caudal anesthesia with, an analysis of 500 obstetrical cases (Brown & others), 7: 355  
cytotoxicity (Gittelson), 10: 202  
dextrose-ephedrine for spinal anesthesia (Potter & Whitacre), 7: 499  
hyaluronidase with, for endotracheal intubation (Howland & Papper), 12: 690  
hypobaric  
area of differential block in spinal anesthesia with (Greene), 19: 45  
a new technique in spinal anesthesia (Lund & Cameron), 6: 565  
1,640 consecutive spinal anesthetics with (Lund & Rumball), 8: 181  
saddle anesthesia with (Dye and Vaughn), 10: 489  
spinal anesthesia with (Rubin and Kistler), 10: 621  
spinal anesthesia in children (Slater and Stephen), 11: 709  
nerve block with (corr.), 12: 517  
procaine solution for spinal anesthesia (Marvin), 9: 434  
regional anesthesia with (Bonica), 11: 606; 11: 716  
spinal anesthesia with, blood volume during (Guest & others), 10: 289  
vasoconstrictors  
and glucose with, effect on duration of spinal anesthesia (Sergent and Dripps), 10: 260  
with effect on duration of spinal anesthesia (Bray & others), 10: 40  
with procaine, caudal anesthesia in obstetrics (Crawford and Chester), 10: 473
- Tetrachlorethylene as an anesthetic agent (Foot & others), 4: 283
- Tetradentoro-ethylene, effect on heart (Carr & others), 12: 230
- Tetraethyl ammonium chloride, treatment of vascular disease (Steinberg), 10: 429
- Tetraethylthiuram Disulfide: see Antabuse
- Therapeutics: see also under names of specific diseases and procedures  
causes and treatment of prolonged apnoea (Churchill-Davidson), 20: 535  
fog  
production of, as a therapeutic agent (Arnold & Tovell), 17: 400  
utilization of, as a therapeutic agent (Tovell & Little), 18: 470
- THEYE, R. A., see PATRICK, R. T., jt. auth.
- THEYE, R. A., see STOELTING, V. K., jt. auth.
- Thiamine, and derivatives, neuromuscular and ganglionic blocking action of (Di Palma & Hitchcock), 19: 762
- Thiamylal (Surital)  
combined with decamethonium for endotracheal intubation (Volpitto), 12: 648  
intravenously, clinical evaluation (Helrich & others), 11: 33  
and thiopental in human anesthesia, comparative clinical and statistical study (Tovell & others), 16: 910
- THIENES, C. H., GREELEY, P. O., and GUEDAL, A. E., Cardiac arrhythmias under cyclopropane anesthesia, 2: 611
- Thiobarbiturates: see also Thiopental Sodium; Methitural Sodium; Thiamylal Sodium  
comparison of ultrashort acting barbiturate (22451) with, during anesthesia (Cruber & others), 18: 50  
physiological disposition (Papper & others), 16: 544

**Thiopental Sodium (Pentothal Sodium)**

abdominal surgery, thiopental decamethonium, nitrous oxide-oxygen, for (Foldes & Machaj), **12**: 366

analgesic and hypnotic actions (Hart & Weaver), **9**: 276

**anesthesia**

automatic electro-encephalographic control of (Kiersey & others), **15**: 356

circulatory changes associated with (Elder & others), **16**: 394

effect of sodium succinate and some of its derivatives (Giarman & others), **15**: 122

hemodynamic studies during (Fieldman & others), **16**: 473

intravenous succinylcholine for laryngospasm during (corr.), **17**: 212

aphonia, the treatment of, by the intravenous administration of (Gold & Gorofalo), **1**: 94

apparatus for administering (Adams), **6**: 191

benefits and hazards of (Heard), **5**: 448

blood gas (arterial), effect of, alone and in combination with oxygen and nitrous-oxide oxygen, on (Barton & others), **7**: 505

blood sugar, effect of thiopental plus nitrous oxide-oxygen on (Sessoms & others), **16**: 235

cardiovascular properties, comparison of new nonbarbiturate intravenous anesthetic agent (Dolitrone) with thiopental (Cotten & Bay), **17**: 103

continuous administration and a method of preserving (Stevens), **6**: 376

cough reflex, comparison of meperidine, lidocaine and, as depressants of (abs.), **20**: 136

**curare**

cocaine combination, for suspension laryngoscopy (Davis), **11**: 245

with curare (Paulson & others), **10**: 387

mixture (Baird), **8**: 75

nitrous oxide-oxygen anesthesia (Brody), **6**: 381

solution (Baird & others), **9**: 141

dead space combined effect of thiopental-Flaxedil, intubation and atropine on (abs.), **18**: 157

for dental surgery in office practice (Hubbell), **4**: 174

detoxication, role of liver in (Shideman & others), **10**: 421

diffusion respiration in dogs anesthetized with (Draper & Whitehead), **5**: 262

duration of anesthesia with (Paulson & others), **10**: 387

**effect of**

anesthesia with, on Indoklon-induced cerebral cortical seizures (Ling & others), **20**: 173

beta, beta-methylethylglutarimide (Megimide) and, in dogs (Virtue & Kaster), **18**: 686

respiratory stimulant drugs on animals anesthetized with (Mousel & Essex), **2**: 272

upon respiration and respiratory response to hypercapnia (Eckenhoff & Helrich), **19**: 240

**effect on**

blood flow and oxygen consumption of the human brain (Wechsler & others), **12**: 308

carbohydrate metabolism (Booker), **7**: 405

heart (corr.), **9**: 317

liver function with and without inhalation of oxygen (Walton & others), **12**: 67

in shocked rats (Virtue & others), **17**: 47

peripheral vascular homeostasis (Hershey & Zweifach), **11**: 145

**endotracheal intubation**

combined with a muscle relaxant, electrocardiographic studies during, effects during anesthesia with (Rosner & others), **14**: 591

electrocardiographic studies during, in patients anesthetized with (Burstein & others), **12**: 417

combined with decamethonium bromide for, (Volpito), **12**: 648

decamethonium bromide for rapid (Colon-Yordan & others), **14**: 255

for, in maxillofacial surgery (Collins), **9**: 62

evaluation of past, present and future after ten years (Adams & others), **6**: 239

**experience with**

in the combat zone (Rose), **4**: 534

in war casualties (Lieberman), **5**: 517

hemodynamic studies during thiopental and nitrous oxide (Fieldman & others), **16**: 473

hepatic disease, use of, in the presence of, (Scheifley), **7**: 263

hypnosis compared with methitural (Egbert & others), **19**: 656

hysteria, treatment of (Somerfield & Tovell), **2**: 59

inactivation of (c.c.), **8**: 90

**induction**

precautions (corr.), **7**: 571

and premedication influencing ether hyperglycemia (Bass & others), **14**: 18

intravenous anesthesia with, in the case of gunshot wound associated with traumatic shock and blood loss (Adams & Grey), **4**: 70

insulin shock during (Papper & others), **3**: 660

laryngeal reflex action on (Horita & Dille), **16**: 848

lethal dose for guinea pigs and rats (Car-michael), **8**: 589

**metabolism**

effect of picrotoxin (Goldbaum & Hubbard), **11**: 733

rapid, positive role of liver in (Meyers & Peoples), **15**: 146

and methitural for electroshock therapy, comparison of duration of hypnotic doses (Little & others), **20**: 177

military use (Damarjian), **6**: 402

- modification of circulatory response to electro-shock therapy by (Egbert & others), 20: 309
- nitrous oxide-oxygen anesthesia, cardiac output by ballistocardiograph during (Pollock & others), 16: 970
- oxygen and morphine, effect of upon cardiovascular functions in dog (Greisheimer & others), 17: 798
- persistence of electroencephalogram, effects of (Brazier & others), 17: 95
- pentobarbital, combined for prolonged surgery (Farquharson & Murphy), 11: 489
- Pituitrin and circulatory collapse following (Hesselschwerdt & Medbury), 10: 544
- rates of uptake and release of, by human brain, relation to kinetics of thiopental anesthesia (abs.), 18: 171
- reactions, treatment with ACTH (Lemere & others), 13: 86
- recovery, effect of methylphenidate on (Gale), 19: 521
- rectal  
administration in children (Burnap & others), 9: 524  
administration of, in children (Mark & others), 10: 401  
in children  
for basal anesthesia (Artusio and Trousdell), 11: 443  
effect on blood oxygen (Marbury), 11: 589
- repeated administration of (case report), 10: 111
- respiratory response to influence of opiates on (Helrich & others), 17: 459
- shivering following, and other anesthetic agents (Smith & others), 16: 655
- solutions of  
deterioration of (Robinson), 8: 166  
old (corr.), 5: 87  
stability of (c.c.), 4: 642  
stock (c.c.), 12: 774
- spinal anesthetic effects of (Morrison & others), 12: 315
- stages and signs of anesthesia: physiologic basis (Etsten & Himwich), 7: 536
- succinate antagonism (Tucci & others), 10: 25
- sulfanilamide  
dosage-mortality ratio (Lorhan & others), 2: 456  
histopathology in rats following (Lorhan & others), 2: 326
- supplementation of nitrous oxide, recovery time following (Widdowson & others), 16: 747
- (and) thiamylal in human anesthesia, comparative clinical and statistical study (Tovell & others), 16: 910
- tissue distribution with time after a single dose (Bollman & others), 11: 1
- urticaria following use of (corr.), 7: 84
- ventricular fibrillation in hypothermic dogs, influence of, on (Riley & others), 17: 277
- THOMAS, G. J., see JONES, G. W., jt. auth.
- THOMAS, G. J., see TOVELL, R. M., jt. auth.
- THOMAS, P. B., see DWYER, C. S., jt. auth.
- THOMPSON, J. E., and ARROWOOD, J. G., Pheochromocytoma: surgical and anesthetic management, 15: 658
- THOMPSON, J. M., see BROWN, H. O., jt. auth.
- THOMPSON, K. T., see GREISHEIMER, E. M., jt. auth.
- THOMPSON, M. S., see TARROW, A. B., jt. auth.
- Thoracotomy: see Thorax, surgery
- Thorax  
compliance  
in anesthetized subject using cyclopropane, ethylvinyl ether and succinylcholine (abs.), 19: 116  
of, in dogs under influence of muscle relaxants (Safar & Bachman), 17: 334  
during orthopedic surgery (Lynch & others), 20: 278  
effect of anesthesia and muscle relaxants on elastic properties of (abs.), 20: 134  
lung changes, performance of ventilators (Elam & others), 19: 56  
investigation of anoxia during operations on (Thornton & others), 4: 266
- Thorax, surgery  
Albee-Compter table, adaption of (Murphy & Sword), 9: 58  
Alevaire as adjunct for preventing pulmonary complications after (Ruben & others), 16: 801
- anesthesia  
endobronchial for (Bonica & Hull), 12: 344  
for carinal resection (Friedmann & Emma), 12: 12  
for diaphragmatic hernia repair (case report), 11: 377  
for esophageal operations (Wilkins), 4: 274  
peridural for (Crawford & others), 18: 241  
peridural in (Crawford & others), 12: 73  
for pneumonectomy (Neff & others), 3: 314  
problems in (Guild), 12: 733  
regional, for (Seldon), 2:  
spinal for (Bourne & others), 3: 272  
spinal, fractional, in poor risk surgical patients (Brown), 13: 416  
for thoracic surgery (Burstein & Alexander), 8: 36  
for thoracic surgery (Fisher & others), 9: 623  
for thoracic surgery (Gruenwald & Sword), 10: 295  
for thoracic surgery (Strieder), 11: 60  
for thoracolumbar sympathectomy (Clark), 11: 345  
for thoracoplasty  
balanced (Herbert), 9: 537  
nitrous oxide anesthesia for (Cullen & others), 2: 310  
use of Pentothal-curare mixture with nitrous oxide (Grief & others), 9: 637  
case reports (c.c.), 17: 201
- problems  
in thoracic surgery (Mauer), 9: 183  
(during) thoracic surgical procedures (Siebecker & Mendenhall), 17: 468

- in tracheal reconstruction (case report), 15: 206
- responsibility of the anesthetist in reducing operative complications (Maier), 5: 11
- use of artificial resuscitator in (corr.), 16: 814
- THORNTON, H. L., and ROWBOTHAM, S., Anaesthesia in a maxillo-facial surgical unit with the British liberation army, 6: 580
- THORNTON, T. F., ADAMS, W. E., LIVINGSTON, H. M., and WELLMAN, V., Clinical investigation of anoxia in intrathoracic operations (preliminary report), 4: 266
- THORNTON, T. F., MARTIN, R. E., LIVINGSTONE, H. M., and ADAMS, W. E., The effect of variations of intratracheal pressure and anesthetic mixtures on the arterial blood oxygen (an experimental study), 6: 498
- THORNTON, W., DAVIS, D. A., SUGIOKA, K., and FOWLER, C. W., An application of analog computational methods to physiological measurements (abs.), 20: 138
- Thrombo-angiitis obliterans, effect of intravenous procaine (Grubard & Peterson), 10: 175
- Thyroid
- activity, effect of anesthesia on (abs.), 20: 125
- disease, anesthetic management (Mousel & Coakley), 10: 444
- effect of atropine and scopolamine on subsequent injection of epinephrine in thyrotoxic and euthyroid patients (Sarnoff & Cope), 15: 484
- function, effect of anesthesia on (rats) (Oyama), 18: 719
- hormones, effect of on hemodynamic and metabolic responses to epinephrine and nor-epinephrine (abs.), 18: 156
- Thyroxin, effect on toxicity of hypnotics (Richards), 2: 37
- TICHY, F. Y., see KNUTSON, R. C., jt. auth.
- Tidal Volume: see under Respiration
- TIECHE, H. L., see WYNGAARDEN, J. B., jt. auth.
- TILLMAN, W. W., WISE, G. F., and CRAWFORD, O. B., Evaluation of Marezine and Bonamine in lowering the incidence of postoperative nausea and vomiting, 17: 112
- Tilton General Hospital, instructions in anesthesia (Martin), 3: 433
- TING, K. S., Importance of biometry in anesthesiology, 13: 1
- TING, K. S., LIVINGSTON, H. M., and ALLEN, J. G., Effect of d-tubocurarine on blood coagulation time, 13: 594
- TING, K. S., see UHL, J. W., jt. auth.
- Tocograph, studies on uterine motility with (Howard & others), 10: 151
- TODD, D. P., see BUNKER, J. P., jt. auth.
- Tolserol: see Mephenein
- TOMAN, J. E. P., see SMITH, S. M., jt. auth.
- Tonsillectomy
- device for support of head during (c.c.), 16: 146
- endotracheal nitrous oxide anesthesia for (McCarthy), 1: 216
- headlight for (c.c.), 20: 889
- hemiplegia following (Zweighaft), 10: 729
- Topical Anesthesia: see Anesthesia, topical
- TORPIN, R., see BROWN, J. M., jt. auth.
- TORRES-KAY, M., see FOLDES, F. F., jt. auth.
- TORRIE, A. M., Spinal anesthesia for cesarean section, 6: 154
- Torticollis
- treatment with curare (case report), 11: 751
- treatment, use of curare (corr.), 12: 517
- TOUROFF, A. S. W., see ADELMAN, M. H., jt. auth.
- TOVELL, R. M., Presidential address, 2: 460
- TOVELL, R. M., Opportunities in anesthesiology within the Veterans Administration (edit.), 7: 310
- TOVELL, R. M., Problems of training in and practice of anesthesiology in the European theater of operations, 8: 62
- TOVELL, R. M., Problems in supply of anesthetic gases in the European theater of operations, U. S. Army, 8: 303
- TOVELL, R. M., ANDERSON, C. C., SADOVE, M. S., ARTUSIO, J. F., PAPPER, E. M., COAKLEY, C. S., HUDON, F., SMITH, S. M., and THOMAS, C. J., A comparative clinical and statistical study of thiopental and thiamylal in human anesthesia, 16: 910
- TOVELL, R. M., and LITTLE, D. M., The utilization of fog as a therapeutic agent, 18: 470
- TOVELL, R. M., and WALKER, T., Organization and operation of a blood bank and intravenous service, 11: 47
- TOVELL, R. M., see ARNOLD, G. T., jt. auth.
- TOVELL, R. M., see BARBOUR, C. M., jt. auth.
- TOVELL, R. M., see FRANZ, F., jt. auth.
- TOVELL, R. M., see FRIEND, A. W., jt. auth.
- TOVELL, R. M., see HELLIJAS, C. S., jt. auth.
- TOVELL, R. M., see HELLIJAS, C. S., jt. auth.
- TOVELL, R. M., see HICKCOX, C. B., jt. auth.
- TOVELL, R. M., see LITTLE, D. M., jt. auth.
- TOVELL, R. M., see SOMERFIELD, R., jt. auth.
- TOVELL, R. M., see STEVEN, R. J., jt. auth.
- TOVELL, R. M., see WARNOCK, E. H., jt. auth.
- Toxicity: see Poisoning; names of specific substances
- Trachea
- cardiac reflex during analgesia with nitrous oxide and relaxants, electrocardiographic studies (abs.), 19: 103
- compression of (case report), 7: 444
- foreign body in (c.c.), 17: 368
- intubation performed under topical anesthesia, reflex circulatory responses to (King & others), 15: 231
- pretracheal abscess after transtracheal analgesia (c.c.), 20: 719
- reconstruction, problems of anesthesia in (case report), 15: 206
- reflexes, effect on respiration (Reid & Brace), 4: 345
- subglottic stenosis, cause of difficult intubation (Colgan & Keats), 18: 265
- tracheobronchial aspiration, extra length catheter for (c.c.), 15: 208

- Tracheo-esophageal fistula, anesthesia for, in an adult (case report), 7: 317
- Tracheotomy  
case report (c.c.), 791  
tubes: see also under Apparatus  
connectors (c.c.), 17: 366  
modification (c.c.), 19: 405  
use of, with artificial and controlled respiration (Nelson & others), 18: 77
- Traction, circulatory effects of (Eather & others), 10: 125
- TRAINA, V., and BURSTEIN, C. L., An adapter for the Foregger to-and-fro assembly, 14: 97
- TRAINA, V., BURSTEIN, C. L., CLIBERTI, B. J., and ROVENSTINE, E. A., Pituitary-adrenal response to surgical trauma and anesthesia. I. The eosinopenic response, 449
- TRAINA, V., TAKESHIMA, N., and HOROKAWA, S., Effects of steroid anesthesia upon cardiac rhythm of the dog, 17: 787
- Training: see Education
- Tranquilizing Drugs: see also under names of specific drugs as Chlorpromazine, etc.  
classification and pharmacological survey (Gold & Stone), 18: 357  
what price tranquilization? (edit.), 20: 697
- Transaminase, serum, levels following prolonged surgical anesthesia (Lawrence & Schulkins), 17: 531
- Transfusion: see Blood, transfusion
- Trauma: see also under specific organs  
laryngeal, lack of after use of Carlens catheter (Siebecker & Land), 17: 60  
surgical, and anesthesia, pituitary-adrenal response to, eosinopenic response (Traina & others), 14: 449  
and water requirements (edit.), 18: 899
- Trench foot, treatment, intravenous procaine (Grubard & Peterson), 10: 175
- Tribromethanol  
intravenous anesthesia (Dwyer & others), 14: 291  
effect on liver (Hugill), 11: 567  
for neurosurgery (Teplinsky & others), 10: 82  
poisoning with, acute yellow atrophy of the liver and toxic nephrosis (Andersen), 6: 284
- Trichloroethanol, the present status of (Case), 4: 523
- 1,1,1-Trichloroethane  
anesthetic properties of (Krantz & others), 20: 635
- Trichloroethylene (Trilene)  
acute and chronic exposure, tissue levels of (Cohen & others), 19: 188  
administration of mixtures of, and air, simple adaptation of Heidbrink circle absorption head (No. 9B) for (Harris), 15: 327  
analysis of trichloroethylene vapor by interferometry (Hall & others), 14: 38  
cyclopropane, ethyl chloride and chloroform, epinephrine induced cardiac irregularities in the dog during (Morris & others), 14: 153  
for children (Stephen & Slater), 12: 135  
chronic toxicity of (Nowill & others), 15: 462  
effect on cardiac rhythm (Waters & others), 4: 1  
effects of, on respiration (Dundee & Dripps), 18: 282  
epinephrine induced cardiac irregularities in dog during anesthesia with (Morris & others), 14: 153  
inhalers for (abs.), 19: 109; (Ngai & others), 19: 488  
obstetrical anesthesia and analgesia (Gordon and Morton), 12: 680  
nitrous oxide, oxygen, for office dental anesthesia (Bergner & others), 15: 696  
for reduction of pain of malignant disease (c.c.), 17: 208  
test for safety (corr.), 13: 553
- 1,1,1-Trifluoro-2,2-Bromochloroethane: see Halothane
- Trifluoroethylvinyl Ether (Fluoromar)  
anesthesia, correlations of electroencephalogram with (abs.), 18: 167  
clinical and laboratory circulatory effect of (abs.), 18: 166  
comparative study with ethylvinyl ether (Park & others), 18: 250  
effect of anesthesia with, on Indoklon-induced cerebral cortical seizures (Ling & others), 20: 173  
effects of, on respiration (Dundee & Dripps), 18: 282  
effects of, on some organ function (abs.), 18: 171  
estimation of, in blood (Linde), 17: 777  
-nitrous oxide anesthesia, electroencephalographic patterns during (Brechner & Dornette), 18: 321  
observations on (Dundee & others), 18: 66  
preliminary clinical and laboratory studies (Sadove & others), 17: 591  
stability in animal body (Musser & others), 18: 480
- Tripeleannamine Hydrochloride: see Pyribenzamine
- Triflupromazine (Vesprin)  
antiemetic efficacy of (Bellville & others), 20: 761
- Trilafon: see Perphenazine
- Trilene: see Trichloroethylene
- Trimethaphan Camphorsulfonate: see Arfonad
- Triton A-20  
objective method of evaluating topical anesthesia utilizing laryngeal reflex, effect of methylcellulose, triton A-20, and hyaluronidase (Clark & others), 15: 161
- Tropics, effective administration of ether in (Storni & Lundy), 5: 380
- TROUSDELL, M., see ARTUSIO, J. F., JR., jt. auth.
- TRUITT, E. B., see KRANTZ, J. C., JR., jt. auth.
- TRUITT, E. B., see LING, A. S. C., jt. auth.
- TRUITT, E. B., see O'MALLEY, W. E., jt. auth.
- TRUITT, E. B., see PARK, C. S., jt. auth.
- Tubing  
polyethylene, simple sterilization of (corr.), 17: 830



- Tuberculosis, "spreads" after anesthesia (Gruenwald & Sword), 10: 295
- d*-Tubocurarine: see also Curare
- cerebral effects, lack of (Smith & others), 8: 1
  - clinical evaluation of some new preparations (Hesselschwerdt & others), 12: 14
  - combined with ultra short acting barbiturates for endotracheal intubation (Volpitto), 12: 648
  - clinical evaluation of (Hesselschwerdt & others), 12: 14
  - intravenous administration, hypotension and (c.c.), 19: 404
  - histamine-like action of (Comroe & Dripps), 7: 260
  - measurements of concentration in human blood (Cohen & others), 18: 300
  - positive inotropic action of cyclopropane on intercostal muscle *in vitro*, and modification by (Sabawala & Dillon), 19: 473
- Tubadil, advantages of preoperative use of (Fuller), 13: 370
- TUCCI, J. H., BRAZIER, M. A. B., MILES, H. W., and FINESINGER, J. E., A study of Pentothal sodium anesthesia and a critical investigation of the use of succinate as an antidote, 10: 25
- Tumors
- malignant, management of pain of malignant disease with nerve blocks (Bonica), 15: 134; 15: 280
- TUNG, P. P., RANDALL, H. T., and HOWLAND, W. S., The anesthetic management of hypophysectomized patients, 17: 739
- TUOHY, E. B., Presidential address (edit.), 8: 85
- TUOHY, E. B., Presidential address, 9: 86
- TUOHY, E. B., Continuous spinal anesthesia: its usefulness and technic involved, 5: 142
- TUOHY, E. B., Regional block anesthesia for operations on the perineum, anus, genitalia and lower extremities, 2: 369
- TUOHY, E. B., see MORRISON, R. L., jt. auth.
- TURKEL, H., see TARROW, A. B., jt. auth.
- Twins
- anesthesia for delivery (Little & Friedman), 19: 515
- UHL, J. W., LIVINGSTONE, H. M., and TING, K. S., The detection of explosive mixtures or static in operating rooms, 10: 479
- Upper extremity, regional anesthesia (Adams), 2: 515
- Urine
- excretion of Arfonad by patients undergoing "controlled hypotension" during surgery (Gertner & others), 16: 495
  - secretion during diffusion respiration after apnea from neuromuscular block (Irwin & others), 18: 594
  - secretion during diffusion respiration following apnea induced by intracisternal injection of procaine hydrochloride (Irwin & others), 16: 665
- URRY, A. G., see CHRISTENSEN, E. M., jt. auth.
- Urticaria, after morphine (Salter & White), 10: 553
- Uterus
- effect of analgesics during labor (Javert & Hurdy), 12: 210
  - effect of anesthetics on motility (Howard & others), 10: 151
- Vagus: see also under Nerves
- reflexes
- cardiovascular, control of during surgery (Fisher & Winsor), 14: 596
  - effect of curare (Burstein & others), 11: 409
- stimulation
- bronchomotor effects of certain intravenous barbiturates on (Bernstine & others), 18: 866
  - stimulation and hypoxia, effect of on cardiac arrhythmia (Jacoby & others), 16: 1004
- Valves: see also under Apparatus
- and canisters, resistance in (Hunt), 16: 190
  - modified nonbreathing (c.c.), 17: 749
  - for nonbreathing systems (c.c.), 20: 383
- respiratory
- adjustable, offering low resistance to flow of gas (Ruben & Hesse), 17: 782
  - classification and performance (Foregger), 20: 296
- VAN ACKEREN, E. G., see MOORE, D. C., jt. auth.
- VAN BERGEN, F. H., and BUCKLEY, J. J., Management of severe systemic tetanus, 13: 599
- VAN BERGEN, F. H., BUCKLEY, J. J., FRENCH, L. A., DOBKIN, A. B., and BROWN, I. A., Physiologic alterations associated with hexamethonium-induced hypotension, 15: 507
- VAN BERGEN, F. H., BUCKLEY, J. J., WEATHERHEAD, D. S. P., SCHULTZ, E. A., and GORDON, J. R., A new respirator, 17: 708
- VAN BERGEN, F. H., see BAIRD, J. W., jt. auth.
- VAN BERGEN, F. H., see BUCKLEY, J. J., jt. auth.
- VAN BERGEN, F. H., see CEDARLEAF, S. J., jt. auth.
- VAN BERGEN, F. H., see COHEN, E. N., jt. auth.
- VAN BERGEN, F. H., see MATTHEWS, J. H., jt. auth.
- VANDAM, L. D., Functional anatomy of the lung, 13: 130
- VANDAM, L. D., and DRIFPS, R. D., The anesthetic properties of cyclobutane, 16: 48
- VANDAM, L. D., and ECKENHOFF, J. E., The anesthesiologist and therapeutic nerve block: Technician or physician. (With emphasis on the problems of pain relief), 15: 89
- VANDAM, L. D., and LAMONT, A., Examination of the local anesthetic action of some synthetic sweet substances and other phenyl alkyl derivatives, 8: 390
- VANDAM, L. D., and McLEMOVE, G. A., Circulatory arrest in patients with complete heart block during anesthesia and operation (abs.), 18: 175
- VANDAM, L. D., see BURNAP, T. K., jt. auth.
- VANDAM, L. D., see CROCKER, J. S., jt. auth.
- VANDAM, L. D., see GALLA, S. J., jt. auth.
- VANDAM, L. D., see HARMEL, M. H., jt. auth.

- VANDAM, L. D., see HENNEMAN, D. H., jt. auth.  
VANDAM, L. D., see ROCCO, A. G., jt. auth.  
van der Waals Constants  
correlation with anesthetic potency (Wulf & Featherstone), 18: 97  
VAN DOMMELEN, G. M., see BYRD, M. L., jt. auth.  
VANDER WOOD, J. M., see ALVER, E. C., jt. auth.  
VANDERVORT, R. S., see FOLDES, F. F., jt. auth.  
VAN HEES, G. R., see FOLDES, F. F., jt. auth.  
VAN HORN, G. D., see FRASER, H. F., jt. auth.  
VAN LIERE, E. J., The role of anoxia in gastrointestinal effects of anesthesia, 5: 400  
VAN LIERE, E. J., NORTHUP, D. W., and STICKNEY, J. C., A comparative study of the action of various anesthetic agents on the muscles of the colon in the dog, 5: 597  
Vaporization  
halothane and ether in Copper Kettle (Feldman & Morris), 19: 650  
Vaporizer: see also under Apparatus  
anesthetic, physical basis for functional classification (Faulconer), 18: 372  
Fluothane  
for administration of (Fabian & others), 20: 27  
simple and accurate (c.c.), 19: 284  
Vapotester in detection of explosive mixtures (Uhl & others), 10: 479  
VARCO, R. L., see BUCKLEY, J. J., jt. auth.  
Varices, rupture of esophageal (c.c.), 19: 291  
Vasoconstrictors: see also specific drugs; vasopressors  
the substances causing vasoconstriction (Henderson), 1: 323  
spinal anesthesia  
effect on duration of (Bonica & others), 12: 431  
effect on duration of (Bray & others), 10: 40  
effect on duration of (Sergent & Dripps), 10: 260  
Vasopressin (Pitressin)  
during anesthesia (Parsloe & others), 11: 76  
effect on coronary circulation (Eckenhoff), 11: 168  
Vasopressor Agents: see also specific drugs  
Aramine as pressor agent during spinal anesthesia (Poe), 15: 547  
cardiovascular effects of commonly used (review) (Aviado), 20: 71  
comparison of responses in the presence of phenothiazine derivatives (Eggers & others), 20: 261  
effect of reserpine on action of (abs.), 123; (Eger & Hamilton), 20: 641  
mephentermine as pressor agent during spinal anesthesia (Smessaert & Collins), 16: 795  
neurological effects following intrathecal administration of vasoconstrictor drugs in rhesus monkey (Wu & others), 15: 71  
Vasospasm, effect of prolonged continuous spinal anesthesia (Smith & Rees), 9: 229  
VAUGHN, J. A., see DYE, F. C., jt. auth.  
Venipuncture, retrograde (c.c.), 5: 195  
Venous pressure, during anesthesia (Bishop), 13: 297  
Ventilation: see also Respiration  
problems in (panel discussion), 15: 416  
Ventilators: see also Apparatus  
performance, lung-thorax compliance (Elam & others), 19: 56  
Ventricular Defibrillation  
electric shock apparatus for (c.c.), 14: 207  
Ventricular Fibrillation  
combating, new approach to use of electroshock devices (Schotz & Birkmire), 16: 441  
cyclopropane-epinephrine, mephentermine as antifibrillatory drug against (Lynch & others), 16: 632  
during right heart catheterization, transient attack (Gordh & others), 17: 358  
failure of procaine to reverse (Stutzman & others), 6: 57  
in hypothermic dogs as influenced by thiopental, pentobarbital and succinylcholine (Riley & others), 17: 277  
incidence of, in experimental hypothermic ventriculotomy, comparison of anesthetics on (Anlyan & others), 19: 213  
laboratory studies on the prophylaxis and treatment of ventricular fibrillation induced by epinephrine during cyclopropane anesthesia (Burstein & others), 1: 167  
Ventricular tachycardia, production of by epinephrine in cyclopropane anesthesia (Allen & others), 1: 158  
Vertebral Column  
regional anesthetic procedures around (Seldon), 2: 669  
anesthesia for intravertebral operations (Hunter), 11: 367  
Vesprin: see Triflupromazine  
Viadril: see 21-Hydroxypregnanedione Sodium Succinate  
VIEIRA, Z., see HULPIEU, H. R., jt. auth.  
Vinamar: see Ether, ethylvinyl  
Vinbarbital Sodium: see Delvinal Sodium  
Vinethene: see Ether, divinyl  
VINSON, P. P., see RAY, E. S., jt. auth.  
Vinyl chloride, narcosis with (Oster & others), 8: 359  
Vinyl Ether: see Ether, vinyl  
VIRTUE, R. W., Anesthesia with Methylal in dogs, mice and rats, 12: 100  
VIRTUE, R. W., Circulation during anesthetic procedure (edit.), 15: 700  
VIRTUE, R. W., Observations on cyclopentane as an anesthetic agent, 10: 318  
VIRTUE, R. W., and GOOTEE, J. E., Experimental and clinical evaluation of sodium allyl-1-methylbutyl barbiturate (Seconal) administered intravenously, 12: 642  
VIRTUE, R. W., and JONES, B. E., Influence of chlorpromazine on survival time of shocked rats, 17: 601

- VIRTUE, R. W., JONES, B. E., and WELLS, J. B., Effects of ether, cyclopropane and Pentothal in shocked rats, 17: 60
- VIRTUE, R. W., and KASTER, R. B., The effect of beta, beta-methylethylglutarimide (Megimide) and thiopental in dogs, 18: 686
- VIRTUE, R. W., PAYNE, K. W., CARANNA, L. J., GORDON, G. S., and REMBER, R. R., Observations during experimental and clinical use of Fluothane, 19: 478
- VIRTUE, R. W., and PIERCE, A. F., Electrocardiographic studies during induction of anesthesia using ethyl chloride, ether, Vinethene and cyclopropane, 12: 442
- VIRTUE, R. W., and WEAVER, R. H., Mild anesthetic properties of sulfur hexafluoride, 13: 605
- VIRTUE, R. W., see PEARCY, W. C., jt. auth.
- VIRTUE, R. W., see SMITH, D. L., jt. auth.
- VIRTUE, R. W., see WEAVER, R. H., jt. auth.
- VIRTUE, R. W., see WIDDOWSON, H. R., jt. auth.
- VIRTUE, R. W., see ZEAVIN, I., jt. auth.
- Vital Capacity, effect of posture on (Case & Stiles), 7: 29
- VITCHA, J. F., see KRANTZ, J. C., jt. auth.
- Vocal cord paralysis, after arteriogram (case report), 12: 511
- Volatile Anesthetics: see Anesthesia; under names of specific agents or drugs
- VOLPITTO, P. P., Experiences with ultrashort acting intravenous barbiturates combined with decamethonium bromide for endotracheal intubation, 12: 648
- VOLPITTO, P. P., and BENTON, C. C., Evipal sodium—d-Tubocurarine chloride for endotracheal intubation: preliminary study, 11: 164
- VOLPITTO, P. P., and RISTEEN, W. A., Use of stellate ganglion block in cerebral vascular occlusions, 4: 403
- VOLPITTO, P. P., and RISTEEN, W. A., Stellate ganglion block: a definite anterolateral approach, 5: 491
- VOLPITTO, P. P., see BRITTON, J. B., jt. auth.
- VOLPITTO, P. P., see BROWN, J. M., jt. auth.
- Vomiting  
     during spinal anesthesia, influence of preoperative narcotics (Sellman), 2: 333  
     effect of  
         cerium oxalate (Gordh & Rvdin), 7: 526  
         Dramamine (corr.), 12: 257  
         pyridoxine (Kernis & Stodsky), 11: 212  
     and nausea during spinal anesthesia (Crocker & Vandam), 20: 587  
     narcotics as a factor in (Steele), 4: 430  
     postanesthetic, cyclizine for (Bonica & others), 19: 532  
     postoperative  
         control with Dramamine (Hume & Wilner), 13: 302  
         control with Marezine (Moore & others), 17: 690  
         control with parenteral Dramamine (Moore & others), 13: 354  
         control with perphenazine (Moore & others), 19: 72  
         evaluation of Marezine and Bonamine in lowering incidence of (Tillman & others), 17: 112  
         incidence, analysis and therapeutic measures, 3,000 patients (Dent & others), 16: 564  
         treatment (Marcus & Sheehan), 16: 423
- WAITS, E. J., see RUMBLE, L., jt. auth.
- WALD, G. H., see BELLVILLE, J. W., jt. auth.
- WALKER, T., and PEMBLETON, W. E., Continuous epidural block in the treatment of pancreatitis, 14: 33
- WALKER, T., see TOVELL, R. M., jt. auth.
- WALLACE, G., A lateral approach for lumbar sympathetic nerve block, 16: 254
- WALLENSTEIN, S. L., see BELLVILLE, J. W., jt. auth.
- WALTON, C. H., SALDAMANDO, J., and EGNER, W. M., Effect of intravenous Pentothal sodium with or without oxygen on liver function, 12: 67
- WALTON, R. P., see COTTEN, M. DeV., jt. auth.
- WALTZ, R. C., see HUBAY, C. A., jt. auth.
- WALZ, D., see SCHALLEK, W., jt. auth.
- WANG, K. C., and HOWLAND, W. S., The ballistocardiogram: aid in evaluation of anesthetic and surgical risk, 17: 578
- WANG, K. C., see BELLVILLE, J. W., jt. auth.
- WANG, K. C., see BOYAN, C. P., jt. auth.
- WANG, K. C., see HOWLAND, W. S., jt. auth.
- WANGEMAN, C. P., Experiment in the recording of surgical and anesthetic data in military service 2: 179
- WANGEMAN, C. P., and HAWK, M. H., Effects of morphine, atropine and scopolamine on human subjects, 3: 24
- WANGEMAN, C. P., and MARTIN, S. J., The recording of surgical and anesthetic data in two army hospitals, 6: 64
- WANGEMAN, C. P., see HAWK, M. H., jt. auth.
- WANGEMAN, C. P., see LEE, W. V., jt. auth.
- WANGEMAN, C. P., see ORTH, O. S., jt. auth.
- WANGEMAN, C. P., see YOUmans, W. B., jt. auth.
- WARD, R. J., see CRISCUOLO, D., jt. auth.
- WARNOCK, E. H., and TOVELL, R. M., Oxygen therapy and resuscitation, 1: 187
- Wartime  
     anesthesia  
         for Naval air personnel (Ruzicka), 6: 385  
         observations on (Clement & Elder), 4: 516  
         for war wounded, experience with (Beecher), 7: 648  
     anesthesiology in (Fapper & Sheehan), 4: 619  
     combat zone, experience with thiopental (Rose), 4: 534  
     a critique of intravenous anesthesia in war surgery (Halford), 67; (edit.), 4: 74  
     effect on civilian anesthesia (edit.), 4: 637  
     noxious gases encountered in (Friend & Tovell), 3: 546
- WASKOW, W. H., see HELPERIN, S. W., jt. auth.

- VASMUTH, C. E., see HALE, D. E., *jt. auth.*
- VASTL, H., Studies on the detoxication of local anesthetics, 2: 74
- VASTL, H., Studies on the detoxication of local anesthetics. Comparison of the protective effects of sodium, potassium and calcium salts, 2: 661
- Water  
exchanges due to anesthetic drugs (Barbour), 1: 121  
requirements and trauma (*edit.*), 18: 899
- WATERS, R. M., Absorption of carbon dioxide from anesthetic atmospheres: historical aspects, 8: 339
- WATERS, R. M., "Bronchopneumonia": the anesthesiologists' responsibility, 1: 136
- WATERS, R. M., Chemical absorption of carbon dioxide from anesthetic atmospheres, 4: 596
- WATERS, R. M., Nitrous oxide centennial, 5: 551
- WATERS, R. M., Organization and anesthesiology (*edit.*), 7: 198
- WATERS, R. M., Presidential address (*edit.*), 6: 302
- WATERS, R. M., and GILLESPIE, N. A., Deaths in the operating room, 5: 113
- WATERS, R. M., ORTH, O. S., and GILLESPIE, N. A., Trichlorethylene anesthesia and cardiac rhythm, 4: 1
- WATLAND, D. C., LONG, J. P., PITTINGER, C. B., and CULLEN, S. C., Neuromuscular effects of ether cyclopropane, chloroform and Fluothane, 18: 883
- WATROUS, W. G., DAVIS, F. E., and ANDERSON, B. M., Manually assisted and controlled respiration: its use during inhalation anesthesia for the maintenance of a near-normal physiologic state—a review 11: 538; 661; 12: 33
- WATSON, T. R., see HELLER, M. L., *jt. auth.*
- WATTS, D. T., Effect of morphine and pentobarbital on ether hyperglycemia, 13: 33
- WATTS, D. T., see BASS, W. P., *jt. auth.*
- WATTS, D. T., see SESSOMS, G. W., *jt. auth.*
- WATTS, E. H., see BURNAP, R. W., *jt. auth.*
- WEAKLEV, L., and BERGNER, R. P., The respiratory effects of N-allylnormorphine in secobarbital sodium narcosis, 18: 603
- WEATHERHEAD, D. S. P., see VAN BERGEN, F. H., *jt. auth.*
- WEAVER, O. M., JR., see HART, E. R., *jt. auth.*
- WEAVER, R. H., and VIRTUE, R. W., Blood oxygenation as affected by tidal volume and tension of nitrous oxide-oxygen inhaled at one mile altitude, 16: 57
- WEAVER, R. H., see VIRTUE, R. W., *jt. auth.*
- WEBBER, D. L., see LYNCH, P. R., *jt. auth.*
- WECHSLER, R. L., DRIPPS, R. D., and KETY, S. S., Blood flow and oxygen consumption of the human brain during anesthesia produced by thiopental, 12: 308
- WECHSLER, R. L., see STONE, H. H., *jt. auth.*
- WEDD, A. M., and BLAIR, H. A., Action of procaine on the heart, 12: 261
- WEINER, A. S., and BRANCATO, G. J., Erythroblastosis foetalis caused by double sensitization to the factors rh' and Hr', 9: 175
- WEIR, E. F., see CULLEN, S. C., *jt. auth.*
- WEISS, W. A., Regurgitation and aspiration of gastric contents during inhalation anesthesia, 11: 102
- WEISS, W. A., see MOUSEL, L. H., *jt. auth.*
- WEITZNER, S. W., KING, B. D., and IKEZONO, E., The rate of arterial oxygen desaturation during apnea in humans, 20: 624
- WEITZNER, S. W., see KING, B. D., *jt. auth.*
- WELCH, H. J., see McDONALD, W. L. J., *jt. auth.*
- WELLMAN, V., see THORNTON, T. F., *jt. auth.*
- WELLS, J. B., see IRWIN, R. L., *jt. auth.*
- WELLS, J. B., see VIRTUE, R. W., *jt. auth.*
- WERTHEIM, H. M., and ROVENSTINE, E. A., Suprascapular nerve block, 2: 541
- WEST, J. S., and PAPPER, E. M., Preanesthetic medication for children, 11: 279
- WESTER, M. R., see KRUMPERMAN, L., *jt. auth.*
- WESTER, M. R., see LONG, J. H., *jt. auth.*
- WETCHLER, B. V., and BRACE, D. E., A technique to minimize the occurrence of headache after lumbar puncture by use of small bore spinal needles, 16: 270
- WETCHLER, B. V., and MCQUISTON, W. O., Anesthetic management of infants and children with double aortic arch (*abs.*), 18: 176
- WEXLER, I. B., see WIENER, A. S., *jt. auth.*
- WEYGANDT, G. R., see LIVINGSTONE, H. M., *jt. auth.*
- WHEELER, E. T., and CASSELS, W. H., Planning the operating room, 8: 567
- WHEELER, G., see MOORE, D. C., *jt. auth.*
- WHITACRE, R. J., Economics and anesthesia (*edit.*), 5: 521
- WHITACRE, R. J., and FISHER, A. J., Clinical observations on the use of curare in anesthesia, 6: 124
- WHITACRE, R. J., see FISHER, A. J., *jt. auth.*
- WHITACRE, R. J., see POTTER, J. K., *jt. auth.*
- WHITACRE, R. J., see SANKEY, B. B., *jt. auth.*
- WHITCHER, C. E., see SUGIOKA, K., *jt. auth.*
- WHITE, C. S., The anesthesiologist as a consultant (*edit.*), 12: 244
- WHITE, C. W., see MEGIRIAN, R., *jt. auth.*
- WHITE, D. H., see MAXWELL, G. M., *jt. auth.*
- WHITE, J. M., see MORRIS, L. E., *jt. auth.*
- WHITE, J. M., see MASSION, W. H., *jt. auth.*
- WHITE, M. L. T., SHANE, S. M., and KRANTZ, J. C., JR., Anesthesia: XXI. n-Propyl methyl ether as an inhalation anesthetic in man (preliminary report), 7: 663
- WHITE, M. L., see LITTLE, D. M., *jt. auth.*
- WHITE, M. L., see SALTER, W. T., *jt. auth.*
- WHITE, P., see GRUBER, C. M., *jt. auth.*
- WHITEHEAD, R. W., and DRAPER, W. B., Respiratory reflex originating from the thoracic wall of the dog, 8: 159
- WHITEHEAD, R. W., SPENCER, J. N., PARRY, T. M., and DRAPER, W. B., Studies on diffusion respiration. IV. The oxygen and carbon di-

- oxide content and the hydrogen ion concentration of arterial and venous abdominal blood of dogs during diffusion respiration, **10: 54**
- WHITEHEAD, R. W., see DRAPER, W. B., jt. auth.
- WHITEHEAD, R. W., see IRWIN, R. L., jt. auth.
- WHITEHEAD, R. W., see PARRY, T. M., jt. auth.
- WHITEHEAD, R. W., see ROTH, L. W., jt. auth.
- WHITEHOUSE, S., SELDON, T. H., and PETERSON, J. R., How to make an inflatable cuff for an intratracheal tube, **11: 120**
- WHITTENBERGER, J. L., see MULONEY, J. V., jt. auth.
- WICKS, W. R., see BARTON, G. D., jt. auth.
- WIDDOWSON, H. R., AQUINO, T. D., and VIRTUE, R. W., Recovery time following Demerol or Pentothal supplementation of nitrous oxide anesthesia, **16: 747**
- WIENER, A. S., and WEXLER, I. B., Antenatal selection of donors for exchange transfusion in erythroblastosis, **9: 296**
- WIGGIN, S. C., A new modification of the conventional laryngoscope and technic for laryngoscopy, **5: 61**
- WILEY, H. P., see SMITH, R. M., jt. auth.
- WILKINS, A. R., Anesthesia in esophageal surgery, **4: 274**
- WILKINS, D. S., CULLEN, S. C., and BROTMAN, M., Intravenous supplementation during nitrous oxide anesthesia: application of multiple covariant analysis to the comparison of Demerol, morphine and a new potent analgesic drug (15431), **12: 145**
- WILKINS, D. S., see BROTMAN, M., jt. auth.
- WILKINSON, F. A. H., Nupercaine spinal anesthesia for abdomino-perineal resection of the rectum: a new technic, **3: 437**
- WILLIAMSON, A. W. R., see GALLA, S. J., jt. auth.
- WILNER, W. K., see HUME, R. H., jt. auth.
- WILNER, W. K., see LIVINGSTONE, H. M., jt. auth.
- WILSON, F., see GRAY, T. C., jt. auth.
- WILSON, J. E., Pharmacological action of anesthetic agents in irradiated animals, **16: 503**
- WILSON, S. J., Blood transfusion reactions: their etiology, prevention and treatment, **10: 188**
- WILSON, W. P., see DENT, S. J., jt. auth.
- WIN 2747, new relaxing agent, a clinical evaluation (Gordon), **14: 73**
- WIN 7969 (*N*-*N'*-Dibutylethylene Diamine Dicarboxy Bismorpholide) investigation of new analeptic (abs.), **18: 161**
- WINBURY, M. M., HAUSLER, L. M., WOLF, J. K., KLEIN, M. J., and GOVIER, W. M., Suppression of cyclopropane-epinephrine arrhythmias in dogs by four phenothiazine derivatives, **19: 743**
- WINKLER, A. W., see SMITH, P. K., jt. auth.
- WINSOR, T., see FISHER, K., jt. auth.
- WINTER, L., see TAINTER, M. L., jt. auth.
- WISE, G. F., see TILLMAN, W. W., jt. auth.
- WITTAKER, D. J., see GREENE, N. M., jt. auth.
- WNUCK, A. L., NORTON, S., ELLIS, C. H., and DE BEER, E. J., Controlled paralysis of skeletal muscle, **14: 367**
- WOLF, J. K., see WINBURY, M. M., jt. auth.
- WOLFSON, B., see FOLDES, F. F., jt. auth.
- WOLOSHIN, G., see BURSTEIN, C. L., jt. auth.
- WOOD, E., see FIELDMAN, E. J., jt. auth.
- WOOD, P. M., see BETCHER, A. M., jt. auth.
- WOOD, P. M., see SURKS, S. N., jt. auth.
- WOODBIDGE, P. D., Changing concepts concerning depth of anesthesia, **18: 536**
- WOODHALL, B., see STEPHEN, C. R., jt. auth.
- WOODRUFF, L. M., Survival of hypothermia by the dog, **2: 410**
- WOODS, A. L., and HAGGART, J., Apneic and hypotensive effects of local anesthetic drugs in dogs and mice under general anesthesia, **18: 831**
- WOOLF, M. P., see JACOBY, J. J., jt. auth.
- World Federation of Societies of Anesthesiologists First World Congress, **15: 643**
- friendship (edit.), **19: 88**
- Wound healing, stimulation of by powdered (Seldon & others), **5: 566**
- WRIGHT, L. H., see BETCHER, A. M., jt. auth.
- WRIGHT, W. H., and RANDALL, A. D., Effect of certain anesthetic agents and techniques on the twenty-four hour I-131 uptake (abs.), **20: 138**
- Writing, therapy for debilitated self-expression: or, how to write and make sense (edit.), **18: 328**
- WU, J. J., HARNAGEL, D. L. A., BRIZZEE, K. R., and SMITH, S. M., Neurological effects following intrathecal administration of vasoconstrictor drugs in rhesus monkeys, **15: 71**
- WU, N., MILLER, W. F., and CUSHING, I. E., Physiological evaluation of respiratory assistants (abs.), **18: 177**
- WU, N., MILLER, W. F., and LUHN, N. R., Studies of breathing in anesthesia, **17: 696**
- WU, N., see MILLER, W. F., jt. auth.
- WULF, R. J., and FEATHERSTONE, R. M., A correlation of van der Waals constants with anesthetic potency, **18: 97**
- WYANT, G. M., and HALEY, F. C., The effect of phenglutarimid (Aturbane) on salivary secretion in man, **20: 581**
- WYANT, G. M., see SADOVE, M. S., jt. auth.
- WYCOFF, C. C., see CANN, J. E., jt. auth.
- WYCOFF, C. C., see DILLON, J. B., jt. auth.
- WYNGAARDEN, J. B., TIECHE, H. L., and SEEVERS, M. H., On the pharmacology of Myanesin, with particular reference to its intramuscular administration, **10: 529**
- WYNN, M. F., see LARSON, E., jt. auth.
- Xenon  
anesthesia at elevated pressures, electroencephalographic and other observations in monkeys during (Pittinger & others), **16: 551**  
clinicopathologic studies (Pittinger & others), **14: 10**  
electroencephalographic and blood gas observations during (Morris & others), **16: 312**; (erratum), **16: 563**



- electroencephalographic and other observations in monkeys during, at elevated pressures (Pittinger & others), 16: 551
- kinetics of transfer between blood and brain in dog (Pittinger & others), 17: 523
- X-ray: see Roentgen Therapy
- Xylocaine Hydrochloride: see Lidocaine Hydrochloride
- YAGER, B. B., see HERINGMAN, E. C., jt. auth.
- YAMASKI, Y., see COAKLEY, C. S., jt. auth.
- YEAGER, H. E., see CASSELS, W. H., jt. auth.
- YEAKEL, E. L., and SELDON, T. H., d-Desoxyephedrine: a comparison with certain other vasopressor drugs, 9: 605
- YOUMANN, W. B., Role of respiratory responses to changes in arterial blood pressure (edit.), 19: 552
- YOUMANS, W. B., ENOS, R. W., KARSTENS, A. I., and AUMANN, K. W., Studies in the mechanism of intestinal inhibition by cyclopropane anesthesia, 3: 303
- YOUMANS, W. B., WANGEMAN, C. P., GRISWOLD, H. E., and KARSTENS, A. I., Effect of cyclopropane anesthesia on the glucose and epinephrine levels of the blood, 4: 31
- YOUNG, J., see BREHM, W. F., jt. auth.
- YOUNG, J. F., see GIARMAN, N. J., jt. auth.
- YOUNG, R. B., see FISHER, K., jt. auth.
- ZAINO, G., see BURSTINE, C. L., jt. auth.
- ZEAVIN, I., VIRTUE, R. W., and SWAN, H., Cessation of circulation in general hypothermia. II. Anesthetic management, 15: 113
- ZEEDICK, J. F., FOLDES, F. F., RENDELL-BAKER, L., and KOUKAL, L. R., The respiratory effects of narcotic analgetics and their antagonists (abs.), 18: 178
- ZEEDNICK, J. F., see KOUKAL, L. R., jt. auth.
- ZEGARELLI, E. V., see PIRO, J. D., jt. auth.
- ZIEGLER, C. H., see BOSOMWORTH, P. B., jt. auth.
- ZIEGLER, C., see JACOBY, J., jt. auth.
- ZUCKER, M. B., see HOWLAND, W. S., jt. auth.
- ZWEIFACH, B. W., see HERSHEY, S. G., jt. auth.
- ZWEIGHAFT, J. F. B., Hemiplegia following tonsillectomy, 10: 729